


1983

## College of Technology, Bolton Street Prospectus 1983-84

City of Dublin Vocational Education Committee

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City of Dublin Vocational  
Education Committee  
Dublin Institute of  
Technology

# **College of Technology Bolton St.**



## **Prospectus 1983 / 4**

# CALENDAR—SESSION 1983-84

## Term 1

SEPT.	Thursday 1	Commencement of Session.
	Monday 5	Commencement of apprenticeship courses except where otherwise arranged.
	Monday 12	Interviews and enrolments for Part-time & Evening Courses commence except where otherwise arranged.
	Monday 19	Wholetime and part-time classes commence except where otherwise arranged
	Monday 26	Evening classes commence except where otherwise arranged.
OCT.	Wednesday 5	Votive Mass. All classes closed.
DEC.	Wednesday 21	Final class meetings of first term.

## Term 2

1984		
JAN.	Tuesday 9	All classes resume.
	Tuesday 31	Latest date for receipt of College examination entries.
FEB.	Wednesday 1	Closing date for applications to whole-time courses for 1984/85 session.
MARCH	Monday 19	Classes closed (in lieu of St. Patrick's Day)
APRIL	Tuesday 17	Final class meetings of second term.

## Term 3

APRIL	Monday 30	All classes resume.
MAY	Monday 22	Commencement of College Summer examination programme except where otherwise arranged.
JUNE	Wednesday 20	All classes terminate except where otherwise arranged.

### Block Release Dates for Engineering Trades.

Term 1:	1983	Monday 3 October to Friday 16 December.
Term 2:	1984	Monday 9 January to Friday 23 March.
Term 3:	1984	Monday 26 March to Friday 15 June.

Classes will be closed on Public Holidays during the session (viz. 31 October, 17 March, 4 June) and on Church Holidays (November 1, December 8, May 31) except where otherwise arranged.

**NOTE:—** (a) This Calendar is subject to alteration during the session.

(b) The information in this prospectus is intended as a guide for persons seeking admission to the College and shall not be deemed to constitute a contract, or the terms thereof, between the College and a student or any third party.

# PROSPECTUS 1983 – 84

COISTE GAIRM-OIDEACHAIS  
CHATHAIR ÁTHA CLIATH

CITY OF DUBLIN VOCATIONAL  
EDUCATION COMMITTEE

INSTITIÚID TEICNEOLAÍOCHTA  
BHAILE ÁTHA CLIATH

DUBLIN INSTITUTE  
OF TECHNOLOGY

COLÁISTE  
TEICNEOLAÍOCHTA

COLLEGE OF  
TECHNOLOGY

SRÁID BHOLTÚIN

BOLTON STREET

BAILE ÁTHA CLIATH 1

DUBLIN 1

### Centres

College of Technology Bolton Street Dublin 1 Phone 749913

Annex Longford House Little Longford Street Dublin 2 Phone 751183

School of Trades Yarnhall Street Dublin 1 Phone 749913

Annex 23 – 27 Beresford Street Dublin 7 Phone 741420

Principal: MICHAEL O'DONNELL

BE, BComm, MEconSc, CEng, FIEI

### City of Dublin Vocational Education Committee

Administrative Offices : Town Hall, Ballsbridge Dublin 4, Phone 680614

Chief Executive Officer : W. J. Arundel, BComm, HDip.



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## CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE

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Mr. James O'Keeffe (Vice-Chairman), 138 Sundrive Road, Crumlin, Dublin 12.  
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Councillor Charles McManus, 12 Walkinstown Drive, Dublin 12.  
Councillor Gay Mitchell, T.D., Dáil Éireann, Dublin 2.  
Councillor Michael O'Halloran, 141 Ardlea Road, Dublin 5.  
Alderman Eugene Timmons, 42 Copeland Avenue, Dublin 3.

Chief Executive Officer: W. J. Arundel B.Comm, H.Dip.Ed.  
Offices: Town Hall, Ballsbridge, Dublin 4. Telephone 680614.

## COLLEGE OF TECHNOLOGY, BOLTON STREET

### College Council:

Mr. Patrick Donegan (Chairman), 121 Shanard Road, Santry, Dublin 9.  
Mr. Michael O'Donnell, Principal.  
Mr. Thomas Breen, 38 Innisfallen Parade, Dublin 7.  
Mr. Kevin Byrne, 62 St. Mary's Road, East Wall, Dublin 3.  
Mr. Kevin Duffy, 49 Cuffe Street, Dublin 2.  
Mr. Brian Forbes, Students' Union Representative.  
Mr. Anthony Harkin, 52 Farney Park, Dublin 4.  
Mr. Christopher Kelly, Teaching Staff Representative.  
Councillor Tomás MacGiolla T.D., 30 Plás Gairdnéir, Baile Átha Cliath 1.  
Councillor Gay Mitchell T.D., Dáil Éireann, Dublin 2.  
Mr. John O'Grady, 10 Rathfarnham Wood, Dublin 14.  
Mr. Morgan Sheehy, c/o Ove Arup and Partners, 10 Wellington Road, Dublin 14.



## DUBLIN INSTITUTE OF TECHNOLOGY

### Governing Body

Mr. Patrick Donegan (Chairman), 121 Shanard Road, Santry, Dublin 9.  
Mr. Kevin Byrne, 62 St. Mary's Road, East Wall, Dublin 3.  
Alderman Patrick Carroll, 81 Old Cabra Road, Dublin 7.  
Mr. M. O'Donnell, Director  
Mr. Denis Harley, College of Technology, Kevin Street, Dublin 8.  
Mr. Thomas Holt, Principal, Vocational School, Ballyfermot, Dublin 10.  
Mr. Desmond Fay, 23 Harcourt Street, Dublin 2.  
Mr. O. McCarthy, 39 Stillorgan Woods, Co. Dublin.  
Mr. D. McCaughey, 25 Louvain, Ardilea, Dublin 14.  
Mr. Charles McManus, 12 Walkinstown Drive, Dublin 12.  
Mr. James O'Keeffe, 138 Sundrive Road, Crumlin, Dublin 12.  
Mr. Wolfgang Treutzchler, College of Commerce, Rathmines, Dublin 6.

Director: Mr. M. O'Donnell, BE BComm MEconSc CEng FIEI

Offices: 14 Upper Mount Street, Dublin 2. Tel. 766584.

### Joint Academic Council:

Mr. M. Murphy, DipEng MSc MIMechE (Chairman)  
Mr. J. S. Hickey, MSc BA (Deputy Chairman)  
Mr. W. J. Arundel, BComm HDipEd  
Mr. E. de Burca, FRICS FCIQB  
Mr. F. M. Brennan, CEng MIEI MIERE AMIEE  
Mr. J. T. Cotter, MSc  
Mr. J. Creagh, MA AMCA ATC MSDI  
Dr. T. Dalgic, BA MBA PhD  
Mr. E. Farrell, BMus MMus  
Mr. V. Farrington, BA BComm HDipEd DPA FIHA MIITM  
Mr. G. Fitzpatrick, BA BComm FCA  
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Mr. J. M. Forde, BE CEng MIEI  
Mr. K. Fox, BArch FRIAI ARHA

## DUBLIN INSTITUTE OF TECHNOLOGY

Miss Mona Hearn, MEd BSocSc DipDomSc HDipEd  
Mr. J. Hegarty, MEd DipHTLMgt MIHCl  
Mr. F. Heneghan, BE BMus CEng MIMechE STCL LRIAM  
Mr. P. J. Henry, BComm MBA  
Mr. F. Lane, BS DipAppPsych  
Mr. G. Latchford, BE BSc CEng MIEI  
Mr. R. Lawlor, BA MBA MIHCl  
Mr. F. McMahon, BComm MBA MIHCE  
Mr. O. McNulty, CEng FIEI ARTCS MISTructE  
Mr. T. Madden, BComm FIMA FIIF MMII MIITM  
Mr. B. J. O'Connor, CEng MIERE  
Mr. M. O'Donnell, MEconSc, BE BComm CEng MIProdE FIEI  
Dr. P. B. O'hannaigh, BSc MSc PhD MInstP  
Mr. J. O'Keeffe, BArch FRIAI  
Miss N. O'Neill, BA BMus LRAM ARIAM  
Miss J. O'Regan, BA BComm HDipEd MIHCl  
Miss M. O'Sullivan-Farrell, BMus DipMus LTCL  
Ms. A. Prendergast, BComm HDip  
Mrs. M. Proctor, MSc MIFSTI MIHCl  
Mr. E. J. Rothery, BSc CChem FRIC FICI MIBiol  
Miss B. A. Ryan, MSc MICI MIBiol  
Dr. T. Short, CEng PhD MIEE  
Mr. K. Sullivan, DipEng MSc MIEI  
Mr. P. Sullivan, BA HDipEd  
Mr. J. K. Taaffe, BSc MSc MInstP MBA HDipEd  
Miss K. M. Tierney, MA

Academic Registrar: Vacant



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## Institiúid Teicneolaíochta Bhaile Átha Cliath

### AN COLÁISTE TEICNEOLAÍOCHTA SRÁID BHOLTÚIN

Is cuid d'Institiúid Teicneolaíochta Bhaile Átha Cliath an Coláiste seo. Cuireadh an t-Institiúid ar bun sa bhliain 1978 chun na coláistí den triú leibhéal atá faoi chúram Choiste Gairm-oideachais Cathair Átha Cliath a chomhnascadh. San Institiúid tá breis is 1,500 foireann teagaisc agus 20,000 mac léinn.

Tá an Coláiste seo faoi stiúir ag Comhairle an Choláiste, fo-choiste den Choiste Gairm-oideachais. Tá scoileanna sa Choláiste, mar a leanas:–

Ailtireacht, Suirbhéireacht agus Tógálaíocht  
Innealtóireacht  
Clódoireacht  
Ceardanna

Tá cúrsaí lán-aimsire agus páirt-aimsire ar fáil ar leibhéal na teicneolaíochta, teicneoireachta agus ceardanna. Tá deontas Stáit agus scoláireachtaí iníoctha, i gcásanna áirithe, do mhic léinn.

San mbuneolaire seo, tá cur síos ar na cúrsaí éagsúla, na cáilíochtaí iontrála agus na cáilíochtaí gur féidir a bhaint amach (teastas, barrántas, comhaltachas i gcumainn ghairmiúla nó céim ollscoile).

Tagann na daltaí ó gach cuid den tír, cuid acu ón nGaeltacht, cuid eile ón íasacht. Tá súil ag lucht an gColáiste go nglacfaidh na mic léinn páirt gníomhach i saol an Choláiste.





## INTRODUCTION

**Historical Note:** In 1887 the first City of Dublin Technical School was established, and from this initiative the present system of schools and colleges later developed. The College building in Bolton Street was opened in 1911 and provided for education in Building, Engineering and Printing, lines of specialisation which have continued down to the present day. The first whole-time day courses commenced in 1920 with the inauguration of the Apprentice Scholarship Scheme. With the establishment of an Irish Government, technical education came within the province of the Department of Education and a Commission set up in 1926 made recommendations on development which led to the Vocational Education Act of 1930. The system of schools and colleges expanded in succeeding decades under the City of Dublin Vocational Education Committee, and the Bolton Street College was enlarged by new buildings in 1958 and 1963. The development of professional and technician courses began in the 1940's and these over the years gained the recognition of professional and vocational bodies in Ireland and other countries. The College caters for 7,500 students who attend full-time or part-time courses in apprentice, technician and technological education.

### City of Dublin V.E.C.

The College operates under the City of Dublin Vocational Education Committee. The CDVEC is assisted by a number of committees, including a Governing Body for Dublin Institute of Technology, College Councils for each of its six Colleges, a joint Academic Council, an Apprenticeship Board and a Buildings Committee.

### Dublin Institute of Technology:

In 1978 the Dublin Institute of Technology was established by the Vocational Education Committee to co-ordinate the work of its six colleges. Bolton Street is the largest of the colleges, the other constituent Colleges being the College of Technology Kevin Street, the College of Commerce, the College of Catering, the College of Music and the College of Marketing and Design. Its work and awards have attained national and international recognition by academic, professional and industrial Institutions. Over 1,500 teaching staff are primarily concerned with teaching 20,000 students attending whole-time and part-time third level and apprentice courses. The Institute is also involved in research and development and there is a growing demand for advisory and consultative services from institutions in developing countries, as well as in Ireland. The Colleges of the Institute have played a leading role in the evolution of technical and technological education in Ireland and continue to be involved with the latest developments in technology and commerce, maintaining their commitment to industrial, economic and cultural development.

### College Council:

The general direction of the affairs of the College is under the control of the College Council which is a sub-committee of the V.E.C. The Council consists of nine members nominated by the V.E.C., the Principal of the College, a member of academic staff elected by the staff and one student member nominated by the students' union. Its terms of reference include approval of annual estimates of expenditure, approval of the nature and range of courses offered, appointment of staff, responsibility for buildings and other facilities and generally examining any major proposals for development of the College.

### College Executive Board:

The College Executive Board helps in co-ordinating the work of the College and its academic programmes. It comprises the Principal, Heads of Schools, and Heads of Departments.

### College Academic Board

The Academic Board has responsibility for approving and monitoring of courses leading to College / DIT awards, including examinations and student admission requirements. It also has an important role in promoting research and developing College academic policy. Its membership comprises the Principal, Heads of Schools, Heads of Departments and other nominated members.

### Departmental Boards:

Departmental Boards are concerned with the development of courses and facilities at Departmental level. There are Course Committees to advise on development of major courses. There are also Advisory Committees for major disciplines which assist the College in keeping courses abreast of developments in the professional and industrial fields.



## Method of Application

# GENERAL INFORMATION & REGULATIONS

## (a) Degree Level Courses in C.A.O. Scheme

The following degree level courses are in the CAO scheme. Graduates of these courses are eligible for DIT Diplomas. They are also eligible for degree awards of the University of Dublin (Trinity College).

College Code	CAO Code	Course Description
D1	FT01 ARCHDEG	Architecture
D3	FT03 ENVDEG	Environmental Economics
D4	FT02 ECHDEG	Construction Economics
* D42M	* FT04 ENGDEG	Mechanical Engineering
* D42P		Production Engineering
* D42S		Structural Engineering
* D42B		Building Services Engineering

\* These four courses have a common First Year. In accordance with students' choice, performance in First Year College examinations and the number of places available on each course, they will be assigned places on one or other of the courses before entering Second Year.

Applicants for any of the above degree level courses in the CAO scheme should apply directly to:—

The Central Applications Office,  
Tower House,  
Eglinton Street,  
Galway.

It is essential that applicants adhere to the procedures described in the CAO Handbook.

CAO Closing Date: Irish Applicants – 1st February 1984 (5.30 p.m.)

Application Fees:

Irish Applicants ..... IRE16.00  
Late Application Fee ..... IRE40.00

## (b) Technician & Other Wholtime Courses

Application for admission to technician and other wholtime courses not in the CAO system should be made to the College not later than 1st February, 1984 on the standard form available on request from the College Secretary. Late applications may be accepted up to 15th March, 1984. Documentary evidence of qualifications, if available, should accompany applications. Candidates awaiting results of examinations taken in the year of application should bring proof of results if called for interview.

## (c) Part-time and Evening Courses

It is not necessary to make application for admission to part-time and evening courses in advance of the enrolment date for the course. Enrolment will commence on 12th September 1983, and intending applicants should report in person to the College during the scheduled enrolment hours.

## General Information and Regulations

## Admission and Enrolment

Before acceptance of an application for admission to classes or courses applicants may be required to attend for interview. The College may also require an applicant to sit an aptitude or other test. Successful applicants for wholtime courses will be notified in writing in early September and invited to register for the course immediately. Students attending for registration and enrolment are required to have the following:

- Letter of admission to the course, or CAO offer notice Part II.
- Proof of examination results in the case of non CAO applicants.
- Two copies of a recent passport type photograph signed on the back.
- Tuition fees for the Session or CAO offer notice Part II showing bank stamp on reverse side, or a letter from a Local Authority or other recognised body confirming that it will be responsible for the payment of tuition fees.

The latest date for completing enrolment for classes commencing in the first term is 31st October or such earlier date as may be prescribed. Only in exceptional circumstances and subject to the additional payment of a late fee of £30 will applicants be admitted after that date.

All students are required to have a current College Identity Card. Students who were enrolled in the College in previous sessions must surrender the Identity Card previously issued to them. The Identity Card is the property of the College and may be demanded by the College or its Officers at any time. Students are therefore required to have their identity cards with them at all times while in the College. A charge of £1 will be made for the replacement of a College Identity Card and new photographs will be required. Change of address or place of employment should be reported to the Registration Department immediately.

Change of classes or courses may be made only with the consent of the Head of Department.

## Special Cases

### (a) Mature Students

A mature student who is at least 24 years of age or over at the time of enrolment and who does not meet the normal minimum admission requirements may be considered for admission to appropriate courses after attending in person for interview and satisfying the College Authorities as to his/her ability to benefit from the proposed course. Such applicants may also be required to sit and pass an entrance test or a suitability test before admission to any course.

### (b) Overseas Students

Overseas students seeking admission to the College should apply not later than February 1st, using the standard application form available on request. When completed this should be forwarded with documentary evidence of qualifications in English (translations should be certified by an appropriate authority) showing subjects passed, levels and grades obtained.

Because of the large number of applications received each year from qualified Irish applicants, and the limited number of places available, the College regrets that it has to limit admission of overseas applicants to the small quota of places reserved for those who are sponsored by official agencies linked to Ireland's development aid programme.



The minimum entry requirement to technician level courses is the General Certificate of Education Ordinary Level in six subjects, including good passes in English and Mathematics, or equivalent qualifications.

Applicants for professional or degree level courses are also required to have at least two good G.C.E. Advanced Level subjects or equivalent. Applicants must satisfy the College as to their proficiency in written and spoken English.

No application will be accepted from overseas applicants for admission to part-time day or evening courses unless resident in Ireland.

#### (c) Trade Students

Students holding the Senior Trade Certificate of the Department of Education with one endorsement in mathematics or a science subject satisfy the minimum entrance requirements for courses in the DIT Colleges which specify a pass in five subjects in the Leaving Certificate Examination as the entrance requirement. Students holding this Certificate with three endorsements in academic subjects are eligible for consideration for entry into related professional/degree level courses provided that they also meet any special entry requirements (e.g. Higher Level Mathematics for Engineering courses). Where endorsement subjects are not offered in the trade examinations, a pass in an appropriate subject of the Elementary Technological Certificate Examinations of the Department of Education is an acceptable equivalent.

#### (d) Holders of N.C.E.A National Certificates and Diplomas or Similar Level Awards

Applicants should request the College, where they have studied for these awards, to forward in confidence to the Admissions Office a full transcript of results (including subjects studied and grades obtained) not later than July 2nd. The application will not be processed until this has been received. Only candidates with very high level of attainments have prospects of gaining admission because of the limited number of places available.

#### (e) Applicants Seeking Exemptions from one or more years of a Course

As in (d), such applicants should ask their former College to forward in confidence to the Admissions Office, a full transcript of previous attainments which it is claimed will justify the exemptions sought. The application will not be processed until this is received.

#### Fees

#### Irish and other EEC Students

1.	Wholetime Diploma/ Degree Courses	D1; D42M; D42P; D42S; D42B	£450
2.	do. do.	D3; D4	£350
3.	Wholetime Technician Courses	D2A; D5A; D8; D40; D44; D45; D46C; D46H; D46M; D80;	£220
4.	Part-time day and evening courses	D2B; D4A; D31; D41; D43C; D43M; D43V; D47; D82; D134; D154; D154A; D154B; D181; D193; D199; D200;	£100
5.	Evening Courses	E1; E4; E31; E39; E41; E42; E43C; E43M E43V; E44; E45; E46; E47; E48; E49; E50 E51; E52; E53; E54; E55; E56; E57; E58 E60; E63; E83; E84A; E84B; E85; E86; E89A E89B; E101; E102; E105; E107; E111; E121 E125; E128; E129; E130; E131; E133; E134; E136; E141; E142; E143; E143A; E147; E148; E149; E149A; E150; E150A; E151; E151A; E151B; E154; E154A; E154B; E180; E181; E182; E191; E192; E195A; E195B; E200;	£70
6.	Late Registration Fee		£30

**Note:** Fees for OVERSEAS STUDENTS from Non-EEC Countries are ..... £1200

Students who are enrolled in Colleges through Irish Government Agencies may be admitted on paying the same fees as Irish students.

Fees are payable on enrolment before commencing attendance at classes and are not refundable except where a class or course does not form. An enrolment is not transferable from one student to another.

In cases of hardship it may be possible to obtain remission of fees.

Applications in this context should be made directly in confidence to the Principal stating the circumstances and if possible should be accompanied by a letter of support from someone familiar with the applicant (e.g. Clergyman).

The sole proof of enrolment in any class or course in the College is the official receipt for the class or course fees paid. The official receipt must be presented on first attendance at each class.

**Note:** All Course and Examination Fees quoted are subject to revision.

#### Grants and Scholarships

**(a) Local Authority Grants:** Students who register for the professional or degree level courses conducted by the College are eligible to apply to the Local Authority where their parents or guardians normally reside for a Higher Education Grant. Information on eligibility conditions and application forms are available from the appropriate Local Authority (County Council or Corporation).

**(b) VEC Scholarships:** Students who register for technician or sub-degree courses leading to Certificate or Diploma awards are eligible to apply to the Vocational Education Committee of the area where their parents or guardians normally reside for a VEC Scholarship. Information on eligibility conditions and application forms are available from the appropriate Vocational Education Committee.



(c) **ESF Training Grants:** Students who are interested in pursuing the Printing Certificate Course (D80) are eligible to apply for an ESF (European Social Fund) training grant. These are normally advertised in the public press in early Summer.

The Printing Certificate Course is the only programme conducted by the College to which this source of funding applies.

(d) **AnCO:** AnCO, the Industrial Training Authority, offers a number of scholarships and grants each year to those pursuing Technician courses in the Engineering and Construction fields. Information on the scholarships and grants is available from AnCO, Box 456, Baggot Court, Dublin 2.

(e) **Ivan Webb Scholarships:** The Construction Industry Federation and the Master Builders Association have established a scholarship fund to commemorate the late Ivan Webb, a former Council member of both bodies who was killed in the Stansted air disaster. The object of the scholarship fund is to assist students in pursuing their courses of study. The scholarships apply to the full-time and part-time Higher Construction Technician Courses in the College and are awarded on the following basis: One scholarship valued at £500 to the student attaining the highest place in the results of the year's work and examinations in the first year of the full-time course.

Two scholarships valued at £250 each to the two students attaining the highest places in the results of the year's work and examinations in the second year of the part-time course.

(f) **BETA Scholarships:** These are offered by the Engineering Graduates of the College to nominated students in the whole-time degree level Engineering courses who achieve particularly meritorious performances in each year of their courses. The BETA Silver Medal is awarded to the outstanding Engineering graduate each session.

(g) **Hardship Cases:** Students who are not successful in obtaining grants or scholarships and are subject to financial hardship may apply, through the College, to the City of Dublin Vocational Education Committee for a waiver of the Tuition Fees.

(h) **Bank Loans:** The major banks are prepared, under normal circumstances, to consider applications from students for loans, and enquiries about these should be directed to the banks.

## Trade Courses

Trade courses are provided for the sole purpose of supplementing the practical trade training of persons actually employed at and engaged in the various operations of the trade. The College realises that it is impossible for a person to learn a trade solely by attendance at these classes and is further of the opinion that the admission to the classes of persons not actually engaged in the trades would be not only of little use to such persons but would prejudicially affect the instruction of those for whom the classes have been organised.

Accordingly the College reserves the right to restrict enrolment in the trade practical classes to those persons who are actually employed in the several processes and operations of the trade. For admission to these classes proof of actual employment in the several processes and operations of the

trade will be certificates to that effect from the Masters Association, the official Trade Unions of the trade concerned or AnCO. Employers are kept informed during the session of absences or lates on the part of their apprentices. In addition, an end of session report on attendance and progress is issued to students and employers. Apprentices and employers are asked to note particularly that details of the employment and the attendance of all apprentices enrolled in release courses will be made available to AnCO – the Industrial Training Authority – whether or not the apprentices are registered with the body.

## Classes

Day classes will normally be held during the period 9.00 a.m. to 1.00 p.m. and 2.00 p.m. to 5.00 p.m. each week-day. Evening classes will normally be held from 7.00 p.m. to 10.00 p.m. except where otherwise arranged.

## Formation and Continuance of Classes

The College reserves the right to change any or all of the syllabus, the day and time of meeting of any class and may cancel classes where the enrolment or attendance is considered inadequate. If for some reason a teacher is unable to attend, classes may be cancelled without notice.

## Examinations

The College conducts its own examinations for a number of the professional and technician courses. These are moderated by external examiners and lead to College awards. The College also offers courses leading to examinations and awards of external bodies for which it is an approved examination centre. Students are required to acquaint themselves with the examination and promotion regulations of the course for which they enrol.

## Entry Regulations

An examination entry fee of £15.00 is payable in respect of College sessional examinations and in the case of supplemental examinations a further fee of £15.00 is payable. Where examinations lead to an NCEA Certificate or Diploma, an additional fee is payable (for details see under National Council for Educational Awards).

Students should note that those not achieving a minimum average attendance of 75% in each subject of their course, without a satisfactory explanation, will be refused permission to sit College examinations.

The closing dates each year for receipt of College examination entry forms and fees are 31st January for the Summer examinations and 1st July for the Autumn examinations. Applications for entry to examinations received after these closing dates will be considered only in exceptional circumstances and at the discretion of the College Examinations Executive Board. Such applications are subject to a late entry fee of £15.00. No application for entry to College examinations will be considered if received later than 1st March for Summer examinations or 1st August for Autumn examinations. Students should note carefully the Examination Rules and Regulations which are printed on the Examination Entry forms and the Examination Timetables.



**Promotion Regulations**

Promotion to a higher year or stage in any subject is contingent on reaching the required standard in the sessional examination in the lower grade. A candidate unsuccessful in a sessional examination may be permitted to sit a Supplemental examination, in relation to the same session, where such is offered in accordance with the regulations established for the course. Candidates who do not complete an examination in all subjects of the year or stage, or who are required to submit additional work, e.g. project or thesis, to the Examination Board for assessment before graduation or promotion to the next year of the course, must re-enter for that examination before 31st January and pay the appropriate fees. Students are required to submit regularly such project work and course work as may be prescribed by members of the academic staff and this will be taken into account in the assessment at the end of the session. A laboratory notebook must be maintained by each student of a laboratory class. An assessment will be made at the end of the session of each student's progress in laboratory techniques and experimental ability which will count in the sessional examination in that subject.

**General Examination Information**

Candidates will be admitted to the Examination Room only on production of the Identity Card issued by the College in addition to the appropriate admission letter which is issued when and if an application to sit the examination is approved by the College. Students seeking a re-check of an examination result should submit a written request, within two weeks of the publication of provisional results, specifying the grounds on which the request is made. Students wishing to appeal against an examination result must submit a formal written application on the standard form, available from the College Examinations Office, within two weeks of the publication of provisional results. Formal appeals must be accompanied by a fee of £15.00 and submitted to the Principal or Examinations Secretary. The College accepts rechecks and appeals on the understanding that it may not be in a position to inform the student of the result prior to the date for entry or sitting a Supplemental Examination.

**Other Examinations**

The College is a centre for a number of external examinations including the Department of Education and the City and Guilds of London Institute. Application for entry to these examinations must be made through the College Office in accordance with the closing dates as indicated on College Notice Boards.

In connection with the examinations of professional and other external bodies, students are advised to note the following:-

1. Admission to a course in the College may not of itself entitle students to sit for examinations of external bodies. Students are themselves responsible for ensuring that they satisfy all the requirements of the examining body concerned.
2. Students are expected to acquaint themselves with the current regulations for the examinations which they propose to take.
3. Students must make the necessary applications and provide all documents that may be required.
4. The College Authorities will give assistance and advice in the above matters.

**National Council for Educational Awards**

The NCEA was established by the Government in 1972 and awards qualifications in a number of areas of study in non-university institutions. At present students in the Engineering and the Geo-Surveying Technician's Certificate and Diploma courses receive NCEA awards in addition to College awards. Additional examination entry fees are payable in respect of these awards as follows:- First Stage £27.00, Certificate Stage £27.00 and Diploma Stage £34.00. These fees are subject to revision.

**University of Dublin**

The City of Dublin Vocational Education Committee and the University of Dublin have entered into a formal agreement by which degree awards of the University are available to students of the College who successfully complete certain courses in Architecture, Engineering and Surveying. Details relating to these awards are given under the individual course entries.

**General Regulations**

General regulations for Colleges and classes operating under the Authority of the City of Dublin Vocational Education Committee are displayed in the Entrance hall. All students are subject to these regulations and the regulations of Dublin Institute of Technology, together with more specific College regulations.

All College staff are authorised to enforce immediate disciplinary measures in respect of students whom they find violating the regulations of the College or otherwise misconducting themselves. The full co-operation of each student is invited in order to maintain the dignity and discipline of the College.

Students are not permitted to smoke in the College classrooms, laboratories, lecture theatres, workshops, library or gymnasium. Parking of pedal and motor cycles in the space provided in the College grounds is normally permitted. Students are not permitted to bring cars into the College parking area.

Students may use the facilities of the College, including the Gymnasium, on the understanding that they do so at their own risk. Though all reasonable care is taken, the College accepts no liability for student property lost, stolen or damaged on the College premises or grounds.

Locker accommodation is available for a considerable number of students on payment of a fee of £3.00 per session. This includes a deposit of £2.00 returnable only if the locker key is surrendered within seven days of the expiry of the period for which the locker has been granted, i.e., before the end of the academic session.

**Office Hours**

Office Hours: 9.00 a.m. to 12.45 p.m. and 2.15 p.m. to 5.00 p.m. Monday to Friday, and at special periods of the year at times which will be posted on the Notice Board. Except during enrolment periods, members of the staff will not be available for interviews or consultations except by prior appointment.

**Cafeteria Facilities**

The College Cafeteria is open throughout the session for lunches, teas and morning and afternoon snacks.



**The Library**

The Library plays a vital part in the academic structure and programmes of the College. It provides a comprehensive information service, and study facilities for students and staff. While the emphasis in the book collection is on the major college disciplines, there is a gradual build-up of other subject areas. A phased development plan is at present under way to increase the total stock from the existing 30,000 volumes to 40,000 volumes.

The Library also receives 600 current periodicals.

The Library maintains close links with the City of Dublin Public Library system of which it forms part and it has access to the total holdings of that system. It also has close links with the Libraries of An Foras Forbartha, the Institute for Industrial Research & Standards, the Universities and other Research Institutes both here and abroad. Through these links, photocopied material and books on inter-library loan may be quickly obtained. By arrangement facilities may also be provided for staff and senior students to use these libraries for research purposes.

The Library contains an open access stack area, a periodicals and reference area and a reading area which provides seating for 200 readers. A lending scheme is in operation for all books. There is a coin operated photocopying machine in the library for the use of readers.

First year students are given introductory lectures on the use of the library by the librarian. Library publications include a current list of periodicals and a monthly accessions list.

**Hours of Opening:**

Term I & II	Monday to Friday 9.30am – 9.30pm. Saturday 9.30am – 1.00pm.
Third Term	Monday to Friday 9.30am – 9.30pm. Saturday 9.30am – 5.00pm.
Vacation Period	Monday to Friday 9.30a.m.–5.30p.m.

**The Students' Union**

The Students' Union is the students' representative body in the College. Every student becomes a member of the Union on enrolment. The Union is democratically based and it is dependent for its effectiveness on the involvement of its members. It is administered by an Executive which is elected by the student body. The Union President is a full-time sabbatical officer with a wide range of tasks and responsibilities.

Each class in the College elects a representative to the Students' Union Council. In addition College Societies and the Union Executive are represented on the SUC and it is a forum for discussion and decision making. The ultimate decision-making body of the Union is the General Meeting which is a meeting of the whole student body.

**Functions of the Union:**

1. To represent the views of its members.  
This the Union does at College level by representing the students on the College Council, Library and Cafeteria Committee and other bodies. It represents its members' views at national level through the Union of Students in Ireland.

2. To provide recreational and social facilities for its members. These include lunchtime concerts, parties, dances, and guest speakers. The Union also maintains a comfortable Common Room where students may meet, have discussions or just relax.  
The College Societies are also under the umbrella of the Union and, as well as parties, they organise trips, lectures and concerts. The Sports' Council acts as the co-ordinating body for the many sporting activities in the College.
3. To provide services for members.  
The Student Shop (D1) provides stationery, newspapers, sweets, drawing equipment and textbooks. It also issues International Student Identity Cards and provides information on Student travel.  
Union Offices: Room A51.

**Student Services**

Since September 1981, a centralised Student Services Office has provided support services to the students of all of the DIT third-level colleges in the areas of welfare, sporting and social activities. The Office operates under a Student Services Council, consisting of the College Principals (or their nominees) and the Students' Union Presidents. The Council is assisted by three working parties, representative of staff and students, to oversee the day to day work in these three areas and it has a pool of information and expertise available to any student in the system who feels that he/she needs advice or assistance.

From late August every year, a comprehensive list of 'digs' type accommodation is available from the Student Services Office. There are separate lists for the Northside and the Southside, and while 'digs' predominate, there is also some information available on a number of flats and bedsits.

More detailed information can be had from the Student Services Office, 14 Upper Mount Street, Dublin 2, telephone 766584 or 762652, or from the College Students' Union. The Office plans to produce a regular newsheet, the 'Student Services Bulletin', during the year to keep students up to date on its activities.



## GENERAL REGULATIONS of DUBLIN INSTITUTE OF TECHNOLOGY

*Students are admitted subject to the regulations  
of the Institute and its Colleges as amended from time to time*

### REGISTRATION

1. The application and enrolment dates for courses offered in the Institute shall be as published annually by the Institute.
2. Fees must be paid in full on enrolment and before admission to class by cash, bankers draft or money order or guarantee from granting body.
3. Intending students should note the Entry Requirements for admission to the various courses. Before acceptance of an application for admission to classes or courses, the applicant may be required to attend for interview and the College must be satisfied as to his/her ability to benefit from the proposed classes or course. Approval in this respect must be endorsed on the enrolment form by the designated College authority. A College may require an applicant to pass an entrance test and/or a suitability test before admitting him/her to any class or course.
4. Only in exceptional circumstances and subject to the additional payment of a late fee of £30 will applicants be admitted after the enrolment date as referred to in 1.
5. The sole proof of enrolment in any class or course in the College is the Official Receipt for the class or course fees paid. The Official Receipt must be shown to the Lecturer on first attendance at each class of the course. Lecturers are authorised to refuse admission to classes of students who do not show their Official Receipt.
6. Fees are not refundable except where a class or course does not form.
7. New students will be issued with an Identity Card. For this purpose and for the College records students must provide, at their own expense, three copies of a recent photograph (not returnable) of passport type and size. Students who were enrolled in the College in previous sessions must present the Identity Card previously issued to them for re-endorsement for the new session. Where Identity Cards have been lost or are no longer usable, the College should be informed as soon as possible and three copies of a recent photograph must again be provided as in the case of first enrolment. Students should note that an appropriate charge will be made for replacement of Identity Cards. The Identity Card is the property of the College and may be demanded by the College or its officers or agents at any time. Students are, therefore, required to carry their Identity Cards with them while in College or whenever they may be required to identify themselves as students of the College.
8. The onus is on the student to notify change of address or place of employment to the Secretary/Registrar immediately.
9. The College Principal, subject to the approval of the Vocational Education Committee and the Academic Council, may change any course and any or all of the examination regulations; the relevant students shall be given due notice of any such change.

10. The College Principal may change the day and time of any class and may cancel classes where the enrolment or attendance is considered inadequate. If for some reason a lecturer cannot attend, classes may be cancelled without notice.
11. No exchange of classes may be made after enrolment without the written consent of the Principal.

### 12. Overseas Students

Overseas students are required to hold the Leaving Certificate of the Department of Education or the General Certificate of Education Ordinary Level in six subjects including English and Mathematics or equivalent qualification. Applicants for professional or degree level courses are also required to have a minimum of two GCE Advanced Level subjects or equivalent.

It may be requested that applications be accompanied by a letter of recommendation from the Diplomatic Representative of the country of origin in Ireland, or, where there is no such representative, from the Ministry of Education in the country of origin. No application will be accepted from overseas applicants for admission to part-time day or evening courses unless resident in the country.

### STUDENT DISCIPLINE

1. Students are expected to participate in the College activities in a manner conducive to establishing a sound educational atmosphere.
2. All students are required to observe the published regulations laid down by the College.
3. Any student engaging in, or causing disruption of, a legitimate College activity may be suspended from the College.
4. Students must at all times obey the lawful instructions of lecturers and other members of the College staff who are responsible for the maintenance of good order.
5. Misconduct in any of the Colleges comprising the Institute may lead to suspension by the College Principal of the student or students concerned.
6. Students are liable for the cost of repair or replacement of Institute or College property maliciously or negligently damaged by them.
7. Students are not allowed to smoke in College except in areas designated for smoking.
8. Students will be issued with an Identity Card on enrolment. The Identity Card is the property of the College and may be demanded by the College or its officers or agents at any time. Students are, therefore, required to carry their Identity Cards with them while in College or whenever they may be required to identify themselves as students of the College.
9. The Vocational Education Committee reserves the right to expel from the College at any time any student whose conduct is in serious breach of the regulations.
10. Only College or Institute societies and clubs may advertise in the College. Students may only display posters and notices on the designated notice boards with the permission of the College Secretary/Registrar in the College concerned.
11. Student groups wishing to hold meetings in the College should make application in advance and receive the permission of the Secretary/Registrar before such meetings take place.
12. Alcoholic drink may not be brought into the building or grounds of the Institution without the prior permission of the College Principal.



13. Students are forbidden to park cars/bicycles/motor cycles except in such places as they are authorised to do so from time to time.
14. The College Secretary/Registrar must be consulted in advance if College Organisations or Student Unions propose to arrange parades, collections, demonstrations or any other activities of this kind, using the name of the Dublin Institute of Technology, or the name of any of the Colleges comprising the Institute. Approval is given on the understanding that relevant bye-laws and upon such conditions as are set down by the College are understood and will be observed. Notice to the appropriate public authorities, where required, should be arranged well in advance. Individual students participating in the name of the College in any activity outside College remain subject to the general regulation that students conduct shall not bring the College into disrepute.
15. An appeal by a student against a decision on disciplinary matters may be made by the student through the College concerned to the Disciplinary Appeals Board of the Institute; the Board shall comprise a membership as follows:
  - (i) Chairman of the Institute or a member of the Committee acting on the Governing Body and nominated by the Chairman;
  - (ii) The Chief Executive Officer;
  - (iii) A College Principal of another DIT College;
  - (iv) A Student Representative.

No member of a disciplinary committee may be a member of the appeals board.

## ATTENDANCE

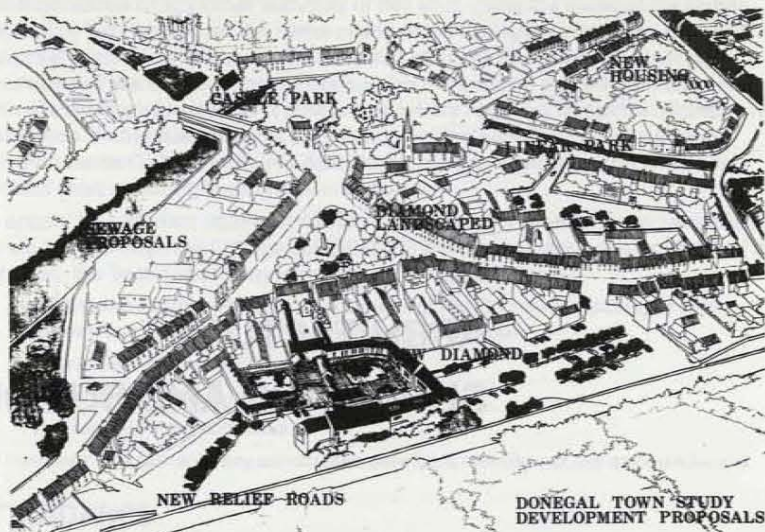
1. A full attendance at classes in all subjects of the course is expected, a minimum attendance of 75% in all subjects of the course is required.
2. Students who fail to comply with this requirement without satisfactory explanation to the College Secretary/Registrar will be refused permission to sit College examinations, and endorsement of their entries for external examinations will similarly be refused.
3. The Vocational Education Committee may expel any student without refund of fees, for irregular or unpunctual attendance. Three successive absences or unsatisfactory attendance from any class may lead to suspension from the entire course, unless a satisfactory written explanation is submitted to the Principal.
4. Students must provide themselves with such books, instruments and equipment (including special clothing) as their classes may, in the opinion of the College, require. Safety precautions, and such other regulations as the work of the College may require, must be observed as prescribed.
5. Students are required to keep such notebooks and record books, and to undertake and submit by the dates specified such course work and assignments as specified by members of the teaching staff. Failure in this respect may lead to suspension or expulsion.
6. Apprentices should note that details of employment and the attendance of all apprentices enrolled in release courses are made available to the relevant authority and employer.

Approved JULY 1981

## ARCHITECTURE SURVEYING AND BUILDING



## Architecture, Surveying and Building



*Students undertake a number of community-based projects each year as part of their programmes. This illustration is taken from a report on a Donegal Town study.*

The School provides courses at technological and technician levels for occupations within the building industry, and brings together in the process of education those who will work together professionally in later careers.

The Architect is responsible for the design and supervision of building projects.

The Construction Economist, as quantity surveyor, is concerned with the cost implications of project designs and the financial management of building operations.

The Building Manager is concerned with production management of the building process.

The Environmental Economist has a similar role in the wider range of urban development and planning, or in estate management.

The Geo-Surveyor is concerned with the land itself, its nature, its resources, and the measurement and definition of these.

Employment opportunities in all cases exist in a range from personal professional consultancy to employment in architectural and building organisations and in State or municipal departments.

## TECHNOLOGICAL AND TECHNICIAN COURSES — WHOLE TIME

### D1

### ARCHITECTURE — DIPLOMA/DEGREE

**C.A.O. Code: FT01** This is a five year wholtime course which prepares students wishing to make their careers in Architecture. The course covers a wide range of subjects and aims at synthesis of knowledge gained from these in architectural design projects culminating in a Final Year Thesis in the design of a major building. Students are required to gain professional experience in architectural office practice during the summer vacations and, in this way, support their study and their ability to work individually, or as members of a team.

#### Entrance Requirements

The minimum educational qualifications required for entry are the Irish Leaving Certificate with passes in six subjects, at least two of which must be at Grade C or higher in the higher level course, or equivalent qualifications. The six subjects must include Mathematics and English. Applicants will be required to undertake an aptitude test and, if successful in this, they are also interviewed as part of the selection process.

#### Course of Study:

- First Year:** Studio Work; Architectural Design, Building Construction and Materials; History of Architecture, Theory of Architecture, Mathematics & Statistics; Mechanics; Physics; Chemistry.
- Second Year:** Studio Work; Theory of Architecture; Irish Art and Architecture; Art & Civilisation; Building Construction & Materials; Building Services I; Theory of Structures; Physics; Chemistry.
- Third Year:** Studio Work; Theory of Architecture; History of Town Planning; Interior Design; Building Construction; Building Practice; Building Services II; Building Materials; Structural Engineering; Surveying & Levelling; Computer Studies.
- Fourth Year:** Studio Work; Theory of Architecture; History of Architecture; Building Construction; Structural Engineering; Professional Practice; Interior Design (including Furniture Design); Urban Design; Economics & Cost Control; Computer Studies.
- Fifth Year:** Studio Work; Structural Engineering; Professional Practice; Urban Design; Specifications & Materials; Economics and Cost Control.

#### Awards:

Graduates of this course are eligible for the following awards:

**Diploma in Architecture (Dublin Institute of Technology)**  
**Bachelor of Architectural Science (University of Dublin)**

They are also eligible on graduation for Associate Membership of the Royal Institute of the Architects of Ireland. Following two years of post graduate experience they may take the Institute's examination in Professional competence and thus become Members of the RIAI. Success in the third year of the Diploma in Architecture Course gives exemption from the Intermediate Examinations of the RIAI.



**Career Opportunities**

The qualification is for the profession of Architect. Architects are concerned with the design of buildings and supervision of building projects. They may practice in a personal professional capacity, or in employment in private and public sector organisations. The field of practice is quite extensive in Ireland and abroad and may offer alternatives of general practice or specialisation throughout a career. Graduates from the course to date have had little difficulty in obtaining employment. Some spend a time abroad to gain wider and more varied design experience.

The course and the career require a creative aptitude for design on the scale of architecture and the organisational ability for its implementation in practice. The range of subject-material in the course is wide, and calls for an interest and ability in artistic and cultural aspects as well as in technical matters and in managerial skills.

**D8****ARCHITECTURAL TECHNICIAN DIPLOMA**

This is a three-year wholtime course leading to an Architectural Technician Diploma award. It aims to give the student a high standard of architectural and technical drawing and presentation, with a good knowledge of building construction, materials, methods and equipment. The course uses the project system extensively during which students are required to prepare working drawings, details, schedules etc. for building work. Lectures in selected subjects such as Building Construction, Structures, Materials and Services are integrated with the projects as far as possible. During the summer vacation period students are encouraged to obtain suitable practical work experience to complement their College training.

**Entrance Requirements**

Leaving Certificate with passes in five subjects including Mathematics and English or equivalent qualifications. Applicants will be required to undertake an aptitude test, and if successful in this they are also interviewed as part of the selection process.

**Course of Study****First Year**

Constructional Projects, Surveying & Levelling, Mechanics & Structures, Building Construction, Graphics & Geometry, History & Theory of Architecture, Building Science & Materials.

**Second Year**

Constructional Projects, Surveying & Levelling, Structures, Building Services, Building Construction, Building Science & Materials, System Building & Prefabrication.

**Third Year**

Constructional Projects, Construction Technology, Building Materials, Structures, Building Contracts, Architectural Practice & Procedure Specifications.

**Awards**

Graduates from this course are eligible for the following award:

**Architectural Technician Diploma (Dublin Institute of Technology)**

This Diploma is recognised for Membership by the Institute of Architectural and Associated Technologists, and for Technician Membership by both the Incorporated Association of Architects and Surveyors, and the Royal Institute of the Architects of Ireland. It is also recognised for Associate Membership of the Society of Architectural and Associated Technicians (SAAT) in the U.K., and for full Membership subject to approved post-graduate experience.

**Career Opportunities**

The majority of graduate Architectural Technicians are employed in private professional architectural offices. Other areas of employment are the architectural and technical sections of Government Departments, Semi-State bodies, Local Authorities, and the building industry, with Contractors and Manufacturers etc.

A number choose to work overseas for a few years to gain useful and wider experience.

**D3****C.A.O. Course  
Code: FT03****ENVIRONMENTAL ECONOMICS – DIPLOMA/DEGREE**

This is a four year wholtime course which prepares students who wish to make their careers in Environmental Economics and Valuation Surveying. It is designed for those who wish to work as valuers, estate agents, property advisors, developers and planners. The course provides a sound general education in the different aspects of this field, with emphasis on the practice of environmental economics. Students are required to gain professional work experience during the summer vacations and in this way they are introduced to applying their technical knowledge to practical problems, working individually, or within a team.

**Entrance Requirements:**

The minimum educational qualifications required for entry are the Irish Leaving Certificate with passes in six subjects, at least two of which must be at Grade C or higher in higher level papers or equivalent qualifications. The six subjects passed must include Mathematics and English.

**Course of Study****First Year:**

Financial Management, Construction Technology, Economics, Environmental Law, Environmental Science, Mathematics, Professional Development, Valuations.

**Second Year:**

Computer Usage, Construction Technology, Economics, Environmental Law, Land Surveying, Mathematics, Planning, Property Management and Professional Practice, Statistics, Valuations.

**Third Year:**

Construction Technology, Economics, Environmental Law, Investment Analysis, Land Surveying, Planning, Urban Sociology, Valuations. Students of this year undertake a major integrated project.

**Fourth Year:**

Economics, Planning, Taxation, Valuations. In the fourth year each student prepares a major dissertation as part of the final examination.



### Awards

Graduates of this course are eligible for the following awards:

**Diploma in Environmental Economics (Dublin Institute of Technology)**  
**Bachelor of Science (Surveying) (University of Dublin).**

Upon successful completion of a test of professional competence, holders of these awards are eligible for Corporate Membership of the Royal Institute of Chartered Surveyors (General Practice Division). They are exempted from the Intermediate Examination of the Royal Town Planning Institute and are also accepted for entry to appropriate Post-Graduate courses in Ireland and abroad. The course is also recognised by the Irish Auctioneers and Valuers Institute.

### Career Opportunities

The qualification is for the profession of Chartered Surveyor, which includes occupations in the field of construction and property management.

Environmental Economists are concerned with the broader areas of land and property development, valuation surveying, estate management and town planning. They are employed in private and public organisations such as property development companies, valuation consultants, local authorities and the national valuation office.

The courses and careers in the discipline of Surveying call for an interest and ability in the financial and legal aspects of the construction industry, and in the managerial skills applied to building and property developments.

To date, Environmental Economists have had little difficulty in obtaining suitable employment, mostly in private practice, but also in areas such as the financial investment departments of banks and insurance companies.

## D4

### C.A.O. Course FT02

### CONSTRUCTION ECONOMICS – DIPLOMA/DEGREE

This is a four year wholtime course which prepares students wishing to make their careers in Construction Economics. It is designed for those who wish to work as quantity surveyors and economics advisors in the construction industry or as building development co-ordinators and building managers. The course provides a sound general education in the different aspects of this field with emphasis on practical construction economy and, in consequence, the course incorporates such project work. Students are required to gain industrial and professional experience during the summer vacations and in this way they are introduced to applying their technical knowledge to practical problems, working individually, or as a team.

### Entrance Requirements:

The minimum educational qualifications required for entry are the Irish Leaving Certificate with passes in six subjects, at least two of which must be at Grade C or higher in the higher level course or equivalent qualifications. The six subjects must include Mathematics and English.

### Course of Study

- First Year:** Construction Technology, Economics, Construction Law, Environmental Science, Mathematics, Professional Development, Measurement and Financial Management.
- Second Year:** Computer Usage, Land Surveying, Statistics, Construction Technology, Measurement, Economics, Financial Management and Construction Law.
- Third Year:** Construction Law, Production Management, Building Economics, Measurement and Specifications, Measurement of Civil Engineering Works, Construction Technology.
- Fourth Year:** Production Management, Building Economics, Contract Administration, Measurement. In the fourth year, each student prepares a major dissertation as part of the final examination.

### Awards

Graduates of this course are eligible for the following awards:

**Diploma in Construction Economics (Dublin Institute of Technology)**  
**Bachelor of Science (Surveying) (University of Dublin)**

Upon successful completion of a test of professional competence, holders of these awards are eligible for corporate membership of the Royal Institute of Chartered Surveyors (Quantity Surveyors Division), and the Construction Surveyors Institute. The Chartered Institute of Building requires graduates to undergo an additional examination in management subjects and satisfy an interview board as to their professional experience before admitting them to membership. Graduates are also accepted for entry to appropriate Post-Graduate courses in Ireland and abroad.

### Career Opportunities

The qualification is for the profession of Chartered Surveyor, which includes occupations in the field of construction and property management.

The Construction Economist is concerned with the more detailed aspects of the construction and site development. He may specialise as a quantity surveyor, in which case he analyses building design for purposes of cost planning and, later, detailed tendering and cost control. Alternatively he may practice as a building manager with responsibility for the organisation of contracts, for labour, materials, plant, and negotiations with main and sub-contractors.

The courses and careers in the discipline of Surveying call for an interest and ability in the financial and legal aspects of the construction industry, and in the managerial skills applied to building and property developments. In general, Construction Economics Graduates have little difficulty in obtaining suitable employment and normally obtain positions in quantity surveyors offices and in the general construction industry with contractors and developers.



**D2A****CONSTRUCTION TECHNICIAN DIPLOMA**

This three-year wholetime course prepares students for a Construction Technician Diploma award and is designed to meet the needs of the construction industry for technical staff having a sound understanding of the principles of construction and construction materials, together with a good appreciation of management skills and the economics of the industry.

**Entrance Requirements**

Leaving Certificate with passes in five subjects, including Mathematics and English, or equivalent qualifications.

**Course of Study****First Year**

Mathematics; Science for Technology; Land Surveying I; Accountancy; Construction Technology I; Measurement I.

**Second Year**

Builders' Accounts; Land Surveying II; Estimation and Price Build up; Construction Technology II; Measurement II; Computer Usage.

**Third Year**

Construction Law; Management; Economics; Construction Technology III; Measurement and Specification III; Variations.

Students are required to gain industrial experience during the summer vacation.

**Awards**

Students who successfully complete the course are eligible for the following award:

**Construction Technician Diploma (Dublin Institute of Technology).**

Holders of the Diploma are entitled to associate Membership of the Chartered Institute of Building following two years experience in building practice. The Institute also grants exemptions in Law and Economics in the Final Part One examination for corporate membership.

The Construction Surveyors Institute admits holders of the Diploma to Licentiate Membership.

**Career Opportunities**

The Construction Technician Diploma is particularly suitable for those who wish to attain positions relating to production planning, purchasing, quality control, estimating, surveying, inspection and general administration in the Construction Industry. It also provides a suitable background for those who wish to make their careers in building in the public sector (i.e. Central and Local Government).

The majority of the past graduates of the course work in Building firms as Estimators, Building Surveyors, Programmers, Planners, Contract Managers and Site Managers. Many have attained a high level in management where they are now executive directors or managing directors. Other graduates are working for consultants in various capacities.

**D5A****GEO-SURVEYING TECHNICIAN CERTIFICATE / DIPLOMA**

This is a three year wholetime course leading to a Technician Certificate award in Geo-Surveying after two years and a Technician Diploma award on completion of an additional year. There is a good balance between lectures and practical work in the programme to ensure a sound understanding of the technology. Project work is a significant feature of the course and it is an important element in the overall assessment.

**Entrance Requirements**

**First Year;** Leaving Certificate with passes in five subjects including Mathematics and English or equivalent qualifications. Preference will be given to applicants with good grades in Mathematics.

**Third Year; (Diploma Stage)** Applicants are normally expected to have reached Credit or Distinction level in the Certificate Examination at the end of the Second Year in order to qualify for admission into the Third Year. However, those holding a Pass Certificate and at least one year of appropriate post-Certificate experience will be considered.

**Course of Study****First Year**

Mathematics and Statistics; Science including Electronics, Surveying Methods and Practice; Theory and Use of Instruments; Survey Drawing; Computer Programming; Liberal Studies.

**Second Year: (Certificate Stage)**

Instrumentation; Introduction to Photogrammetry and Cartography; Geology; Mathematics: Science including Electronics; Land Surveying; Mine and Engineering Surveying; Computer Programming.

**Third Year: (Diploma Stage)**

Cartography; Land Surveying and Astronomy; Photogrammetry; Engineering Surveying; Mathematics and Statistics; Geophysics and Mine Surveying; Elements of Land Law; Dissertation.

Field camps are conducted at the end of both the First Year and Second Year. In addition students are expected to gain practical experience during the summer vacation.

**Awards**

Graduates from this course are eligible for the following awards:

- (a) **Technician Certificate / Diploma in Geo-Surveying (Dublin Institute of Technology)**
- (b) **National Certificate / Diploma in Geo-Surveying (National Council for Educational Awards)**

Holders of the Diploma are eligible for membership of the Society of Survey Technicians and for exemptions from the Part I / II Land Survey Examination of the Royal Institution of Chartered Surveyors.

**Career Opportunities**

The Geo-Surveying Technician may be employed in a wide variety of occupations such as with engineering, land survey and hydrographic consultancies as well as with mining, photogrammetric and construction companies.

The work can be very varied due to the variety of survey sites requiring different techniques and equipment but generally the work involves the



preparation of a plan for a development or the setting out of a design on the ground for construction. The Geo-Surveying Technician should have a preference for an outdoor life and an ability to co-operate and work in a team with other specialists. Sophisticated optical and electronic instruments are commonly used in conjunction with computers and micro-processors by the Geo-Surveying Technician.

**D6 URBAN DESIGN (POST GRADUATE)**

Commencement of course is subject to additional accommodation and finance being available to the College.

**D7 DIPLOMA COURSE IN BUILDING**

As a development of its courses for the building sector the College proposes to offer, from the 1984/85 session, a new four-year course leading to a Diploma in Building awarded by Dublin Institute of Technology. In the first two years the course will be a similar programme to that of the present Construction Economics Diploma. The entry requirements will also be similar.

**D10 PLANNING TECHNICIAN CERTIFICATE COURSE**

Commencement of course is subject to additional accommodation and finance being available to the College.

**TECHNOLOGICAL AND TECHNICIAN COURSES  
PART-TIME**

**D2B**

**CONSTRUCTION TECHNICIAN DIPLOMA COURSE  
PART-TIME**

This day release course is similar to the wholetime Diploma course and leads to the award of the Construction Technician's Diploma. Classes are scheduled on one day and two evenings per week over a period of four years. Entry to this course is open to those holding:-

- (a) The secondary schools Leaving Certificate in at least five subjects including Mathematics OR the Matriculation Certificate of a recognised University OR The General Certificate of Education.
- (b) Appropriate employment in the Construction Industry.

**D4A**

**DIPLOMA COURSE IN CONSTRUCTION ECONOMICS  
PART-TIME**

This day release course is similar to the wholetime Diploma course and leads to the award of a Diploma in Construction Economics. Classes are scheduled on one day and two evenings per week over a period of six years. The academic entry qualifications for the course are similar to D4. In addition, candidates must be in appropriate employment in the Construction Industry.

**D9**

**SHORT COURSES**

Short Courses in Building and Project Management may be held during the session. Enquiries relating to these will be welcome by the Department of Surveying and Building.



## ARCHITECTURE, SURVEYING & BUILDING EVENING COURSES

E4

### PROFESSIONAL COURSE IN SURVEYING AND CONSTRUCTION STUDIES

This is a three-year, two-stage evening course to enable students who hold Intermediate Level qualifications in the construction and surveying fields to progress to full professional qualifications of appropriate institutions. Students may attend classes up to five evenings per week depending on their selection of subjects

Entry  
Qualifications

N.C.E.A. Diploma in Construction Studies, C.T.D., L.I.O.B., L.C.S.I., R.I.C.S., and I.Q.S., Part 1 examinations.

E9

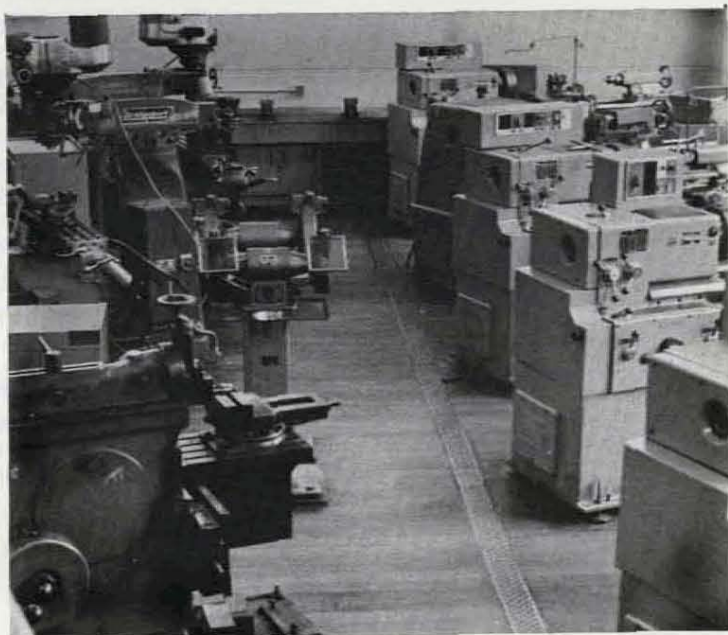
### SHORT COURSES

Short courses in various aspects of Surveying and Building may be held during the session in response to demands. Enquiries should be directed to the Department of Surveying and Building.

## ENGINEERING



## Engineering



The School of Engineering encompasses two departments within the College – the Engineering Technology Department, and the Science, Mathematics, and General Studies Department.

The academic programmes in Engineering within the College range from Craft to full professional level. It is the College policy to provide an integrated system, horizontally in the range of technologies and vertically in their levels. In this way it is hoped that all students will find courses suitable to their needs and abilities. Opportunities for transfer or promotion to related disciplines are provided.

The Engineering School maintains close links with industry through direct contact with employers, through vacation training project work and research activities. The links with professional institutions are strong and there is a conscious awareness of modern needs in technological education and training.

Over the past thirty years the College's wholetime Engineering professional or degree level courses have continued to develop and to-day four separate options are offered in Mechanical, Production, Structural, and Building Services Engineering. They share a common First year and have other common elements in subsequent years. Electrical and Electronic Engineering courses are offered in the College of Technology, Kevin Street.

The College has responded to changing requirements for technician courses to meet the emerging demands. The opportunities for technician graduates are good and such courses also offer attractive prospects for young people in search of interesting careers.

The Engineering School continues to play an important role in the College's evening activities. Programmes are kept under review and every attempt is made to assist technical personnel to keep abreast of the latest advances and new technological developments.

As the accommodation of the College is limited it is regretted that in many cases competition to gain entry into courses is very keen and only some of the applicants can be admitted.





## TECHNOLOGICAL AND TECHNICIAN COURSES – WHOLE-TIME

### D40

#### PRELIMINARY ENGINEERING

This is a one-year full-time course commencing each year in mid-September. Its main purpose is to prepare students for entry into the first year of the College's Engineering Diploma/Degree Courses D42B, D42M, D42P or D42S.

#### Entrance Requirements:

The Irish Leaving Certificate of the Department of Education with good passes in Mathematics, English and three other subjects, or equivalent qualifications. In practice the typical candidate gaining admission will probably have a number of 'Honours' grades.

#### Course of Study:

The subjects studied are:- Mathematics, Mechanics, Engineering Technology, Physics, Chemistry, Engineering Drawing, Communications and Liberal Studies.

#### Examination and Other Requirements:

##### Students are required to:-

- take a College examination at the end of the session.
- present laboratory notebooks and project work reports to the satisfaction of the college.

#### Admission into Professional Engineering Courses:

Students who reach the required standard in the College examination may qualify for admission into the first year of courses D42B, D42M, D42P or D42S without further assessment and are notified of this early in July. They do not have to apply through the CAO system.

### D42M

#### MECHANICAL ENGINEERING — DIPLOMA / DEGREE

#### C.A.O. Code: FT04

This is a four year wholetime course which prepares students with a suitable aptitude and educational background for a career in Mechanical Engineering. It is a broadly based engineering course over the first two years with specialisation in the third and final years and it requires a good mathematical and analytical ability. Project work is an important element in the programme and commences in the second year. A major project is undertaken in the final year on which both a thesis and oral presentation are required. Laboratory work is undertaken throughout the course. Students are encouraged to obtain suitable summer employment in engineering to complement their studies.

#### Entrance Requirements:

The minimum educational qualifications required for entry are the Irish Leaving Certificate in six subjects with Grade C or higher on higher level papers in Mathematics and a suitable Science subject (i.e. Physics, Chemistry, Physics with Chemistry, Applied Mathematics and Mechanics) and a pass in four other subjects which must include English, or equivalent qualifications.

#### Course of Study:

##### First Year:

Mathematics, Mechanics, Engineering Drawing, Engineering Technology, Physics, Materials Science, Communication and Social Studies, Workshop and Laboratory Work.

##### Second Year:

Mathematics and Computing, Electrical Engineering, Mechanics, Thermodynamics, Fluid Mechanics, Engineering Drawing & Design, Materials Science, Manufacturing Technology, Economic and Social Studies, Workshop and Laboratory Work.

##### Third Year:

**Common Subjects:** Mathematics and Computing, Mechanics of Materials, Mechanics of Machines, Control Engineering, Management Studies, Thermodynamics, Fluid Mechanics, Electrotechnology, Engineering Design and Laboratory Work.

##### Final Year:

**Common Subjects:** Mathematics and Computing, Control Engineering, Mechanics of Materials, Mechanics of Machines, Thermodynamics, Fluid Mechanics, Engineering Management, and Laboratory Work. A major project is also undertaken.

#### Awards

Graduates of this course are eligible for the following awards:

**Diploma in Engineering (Dublin Institute of Technology)**  
**Bachelor of Science (Engineering) (University of Dublin)**

They are eligible for membership of the Institution of Engineers of Ireland and are also accepted for entry to appropriate University Post-Graduate courses in Ireland and abroad.



**Career Opportunities**

The qualification is appropriate to those wishing to specialise in either General Mechanical or Process Engineering. Mechanical Engineers are likely to be involved with the design and construction of all types of equipment ranging from individual items to complete factories or process plants. They may also be involved with the management of projects and industries and with the maintenance of plant and equipment.

Graduates have good prospects of employment in general mechanical engineering or processing firms, with state and semi-state bodies, and research organisations. The range of jobs available includes engineering design, maintenance, consulting engineering and plant management. Some also pursue post-graduate studies in Ireland or abroad directly after graduation or they may go abroad to work initially and in this way gain wider or specialised experience.

**D42P**

**C.A.O. Code**  
**FT04**

**PRODUCTION ENGINEERING – DIPLOMA/DEGREE**

This is a four year wholetime course which prepares students with a suitable aptitude and educational background for a career in Production Engineering. It is a broadly based engineering course over the first two years with specialisation in the third and final years in Production Engineering. It requires a good mathematical and analytical ability. Project work is an important element in the programme and commences in the second year. A major project is undertaken in the final year on which both thesis and oral presentation are required. Laboratory work is undertaken throughout the course. Students are encouraged to obtain suitable summer employment in engineering to complement their studies.

**Entrance**  
**Requirements:**

The minimum educational qualifications required for entry are the Irish Leaving Certificate in six subjects with Grade C or higher on higher level papers in Mathematics and a suitable Science subject (i.e. Physics, Chemistry, Physics with Chemistry, Applied Mathematics and Mechanics) and a pass in four other subjects which must include English, or equivalent qualifications.

**Course of Study:**

**First Year:** Mathematics, Mechanics, Engineering Drawing, Engineering Technology, Physics, Materials Science, Communication and Social Studies, Workshop and Laboratory Work.

**Second Year:** Mathematics and Computing, Electrical Engineering, Mechanics, Thermodynamics, Fluid Mechanics, Engineering Drawing & Design, Materials Science, Manufacturing Technology, Economic and Social Studies, Workshop and Laboratory Work.

**Third Year:** Mathematics and Computing, Mechanics of Materials, Mechanics of Machines, Control Engineering, Management Studies, Electrotechnology, Manufacturing Technology, Materials Science, Industrial Engineering, Product Design and Laboratory Work.

**Final Year:**

Mathematics and Computing, Control Engineering, Manufacturing Technology, Mechanics, Materials Science, Production Management and Laboratory Work.  
A major project is also undertaken.

**Awards**

Graduates of this course are eligible for the following awards:

**Diploma in Engineering (Dublin Institute of Technology)**  
**Bachelor of Science (Engineering) (University of Dublin)**

They are eligible for membership of the Institution of Engineers of Ireland and are also accepted for entry to appropriate University Post-Graduate courses in Ireland and abroad.

**Career Opportunities**

The qualification is appropriate to those wishing to specialise in either Manufacturing or Production Engineering. Production Engineers are likely to be involved with the manufacture of all types of products ranging from individual items to large batches using robotics and highly automated machines. They may also be involved with the management of projects and industries and with the maintenance of plant and equipment.

Graduates have good prospects of employment in manufacturing firms, with state and semi-state bodies and research organisations. The range of jobs available includes design, industrial engineering, production and factory management. Some also pursue post-graduate studies in Ireland or abroad directly after graduation or they may go abroad to work initially and in this way gain wider or specialised experience.

**D42S**

**C.A.O. Code**  
**FT04**

**STRUCTURAL ENGINEERING – DIPLOMA/DEGREE**

This is a four year wholetime course which prepares students with a suitable aptitude and educational background for a career in structural engineering. It is a broadly based engineering course in the early years, specialising in structural design in the later stages. Project work is a major element in the programme and in the final year a thesis and oral presentation of the special topic studied are required. The course requires a good mathematical and analytical ability. Students are encouraged to obtain suitable summer employment in the industry to complement their studies.

**Entrance**  
**Requirements:**

The minimum educational qualifications required for entry are the Irish Leaving Certificate in six subjects, with Grade C or higher on higher level papers in Mathematics and a suitable Science subject, (i.e. Physics, Chemistry, Physics with Chemistry, Applied Mathematics and Mechanics) and a pass in four other subjects which must include English, or equivalent qualifications.

**Course of Study**

**First Year:** Mathematics, Mechanics, Materials Science, Physics, Engineering Technology, Engineering Drawing, Communication and Social Studies, Workshop and Laboratory Work.



- Second Year:** Mathematics and Computing, Mechanics, Surveying, Fluid Mechanics, Materials Science, Concrete Technology and Geology, Construction and Environmental Technology, Economic and Social Studies, Structural Theory and Design, Laboratory Work.
- Third Year:** Mathematics and Computing, Surveying, Mechanics of Materials, Design of Structures, Theory of Structures, Municipal Engineering, Management Studies, Soil Mechanics, Laboratory Work.
- Fourth Year:** Mathematics and Computing, Mechanics of Materials, Theory of Structures, Design of Structures, Highway Engineering, Construction Management, Laboratory Work.  
A major project is also undertaken.

**Awards**

Graduates are eligible for the following awards:

**Diploma in Engineering (Dublin Institute of Technology)**

**Bachelor of Science (Engineering) (University of Dublin)**

They are eligible for Membership of the Institution of Engineers of Ireland and are also accepted for entry to appropriate University Post Graduate courses in Ireland and abroad.

**Career Opportunities**

The qualification is appropriate to those wishing to make their careers in Structural Engineering, which is a specialisation of Civil Engineering. Structural Engineers are concerned with the design and construction of buildings, bridges and special structures. They form part of the team of professionals involved with construction projects and in this way work closely with Architects, Quantity Surveyors and Building Services Engineers.

Graduates have good prospects of employment with structural design offices, contractors, research organisations, as well as state and semi-state agencies and local authorities. Some pursue postgraduate studies in Ireland or abroad directly after graduating or they may go abroad to work initially and in this way gain wider or special experience.

**D42B****BUILDING SERVICES ENGINEERING – DIPLOMA/DEGREE**

**C.A.O. Code  
FT04**

This is a new four year whole-time course which prepares students with a suitable aptitude and educational background for a career in Building Services Engineering. It is a broadly based course in the early years, and becomes more specialised in Building Services Engineering in the later stages. Project work is a major element in the programme. At third year a joint project with Architectural and Surveying students is undertaken and in final year a specialised thesis or design project is required. The course requires a good mathematical and analytical ability. Students are encouraged to obtain suitable summer employment in the industry to complement their studies.

**Entrance Requirements:**

The minimum educational qualifications required for entry are the Irish Leaving Certificate in six subjects, with Grade C or higher on higher level papers in Mathematics and a suitable Science subject, (i.e. Physics, Chemistry, Physics with Chemistry, Applied Mathematics and Mechanics) and a pass in four other subjects which must include English, or equivalent qualifications.

**Course of Study**

- First Year:** Mathematics, Mechanics, Materials Science, Physics, Engineering Technology, Engineering Drawing, Communication and Social Studies, Workshop and Laboratory Work.
- Second Year:** Mathematics and Computing, Environmental Science, Materials Science, Electrical Engineering, Building Technology, Fluids and Thermodynamics, Building Services Design, Economic and Social Studies, Workshop and Laboratory Work.
- Third Year:** Mathematics and Computing, Environmental Engineering, Control Engineering, Electrical Engineering, Lighting and Acoustics, Fluids and Thermodynamics, Building Services Design, Management Studies, Workshop and Laboratory Work.
- Fourth Year:** Mathematics and Computing, Environmental Engineering, Building Services Design, Electrical Services, Building Services Plant, Construction Management, Laboratory Work.  
A major project is also undertaken.

**Awards**

Graduates are eligible for the following awards:

**Diploma in Engineering (Dublin Institute of Technology)**

**Bachelor of Science (Engineering) (University of Dublin)**

It is expected that they will also be eligible for membership of the Institution of Engineers of Ireland and acceptable for entry to appropriate University Post Graduate courses in Ireland and abroad.

**Career Opportunities**

The qualification is appropriate to those wishing to make their careers in Building Services Engineering which is concerned with the design and installation of the Mechanical and Electrical Services necessary to ensure the efficient operation of modern buildings. They form part of the team of professionals involved with construction projects and work closely with Architects, Quantity Surveyors and Structural Engineers.

Graduates have good prospects of employment with Consulting Engineers, design offices, contracting firms, research organisations, as well as state and semi-state agencies and local authorities. Some may pursue post graduate studies in Ireland or abroad directly after graduating or they may go abroad to work initially and in this way gain wider or specialised experience.



D44

### TECHNICIAN CERTIFICATE IN TRANSPORT ENGINEERING – DIPLOMA IN MOTOR INDUSTRY MANAGEMENT

This whole-time course prepares students for entry into the many and varied responsible positions in the Motor Industry. The course leads to the award of a Transport Engineering Technician Certificate at the end of two years study and to the award of the Diploma in Motor Industry Management at the end of a further year's study.

**Entrance Requirements:** Leaving Certificate with passes in five subjects, including Mathematics and English, and preferably Physics or equivalent qualifications.

#### Course of Study

**First Year:** Mathematics, Automobile Engineering, Electricity, Heat Engines, Applied Mechanics, Workshop Technology, Engineering Drawing, Complementary and Management Studies.

**Second Year:** Mathematics, Automobile Engineering, Automobile Electricity, Engineering Science, Heat Engines, Applied Mechanics, Workshop Technology, Engineering Drawing, Complementary and Management Studies.

**Third Year:** Mathematics, Automobile Engineering, Transport Studies, Motor Industry Management, Motor Industry Law, Motor Industry Administration and Organisation, Communications and Industrial Sociology, Accountancy, Management Project and Computer Studies.

**Examination and Other Requirements** Progress to successive years of the course will be on the basis of the student's work during the session, and success in the College sessional examinations. Only students who successfully complete the Certificate stage and who display an aptitude for management will be accepted for the Diploma Stage. A requirement of the course is that students spend 2-3 months of each Summer Vacation in suitable employment in the Motor Industry gaining appropriate experience. Where students are unable to arrange this employment, the Graduate Society of the Institute of the Motor Industry, the College Authorities and the student society of Motor Industry Management will assist in their placement.

#### Career Opportunities

There are many and varied career opportunities in the automobile and transport industries for those completing these courses including the following: Vehicle Body Repair Supervisor, Garage Service Department Supervisor, Reception Engineer, Vehicle Salesperson, Training Advisor, Vehicle Finance Company Representative etc. Generally they progress fairly quickly to more senior management positions in Garage Management as Transport Managers, etc.

#### Awards

Graduates of the course are eligible for the following awards:

**Technician Certificate in Transport Engineering** (Dublin Institute of Technology)

**Diploma in Motor Industry Management** (Dublin Institute of Technology)

Graduates holding the Diploma are eligible for full exemptions from the examination requirements of the Institute of the Motor Industry and, by taking an extra examination in Road Transport Management, qualify for exemption from the examinations of the Institute of Road Transport Engineers.

D45.

### AIRCRAFT TECHNICIANS' COURSE

This course is a two-year sandwich course to train those already employed in the aeronautical industry as Aircraft Technicians for the ICAO Licensed Maintenance Engineers' Licences issued by the Department of Transport. Students attend the College from September to May inclusive and spend the remainder of the year in the Aircraft Industry.

**Entrance Requirements**

- (a) Intermediate Certificate of the Department of Education in suitable subjects; or
- (b) Day Group Certificate of the Department of Education in suitable subjects.
- (c) employment in an Aeronautical Engineering environment.

**Course of Study**

#### First Year

French, English, Social Science, Physics, Mechanics, Mathematics, Drawing, Heat, Workshop Technology.  
Workshop Practice, Aero-Laboratory and Physical Training.

#### Second Year

As above except Heat Engines instead of Physics.

**Examination and Other Requirements**

Students are required to pass examinations as follows:

- (a) At the end of the first year — the Department of Education Junior Trade Group Certificates and Elementary Stage Technological Examinations in Mechanical Engineering.
- (b) At the end of the second year — the Department of Education Senior Trade Group Certificate in Mechanical Engineering and City and Guilds of London Institute Examination in Aeronautical Engineering Practice Part I.

D46C

### CIVIL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA

This course prepares students for a Technician Certificate award in Civil Engineering at the end of two years and for a Technician Diploma award at the end of a further year of study. The students attend the College from the end of September until the end of May each year and they spend the Summer months gaining practical experience in approved Civil or Structural Engineering design offices, construction sites, etc. The course requires an analytical ability to understand and solve technical problems.

**Entrance Requirements**

**First Year** - Leaving Certificate with good passes in Mathematics, a Science subject (preferably Physics), English and two other subjects or equivalent qualification.



**Third Year (Diploma Stage)** - Students are expected to reach Credit or Distinction level in the Certificate Examination at the end of the second year to qualify for admission to the third year of the course leading to the Diploma award. Students who hold a Pass certificate and at least one year of appropriate post-Certificate experience may also be considered. The Diploma stage is specialised and is focussed on Structural Design.

#### Course of Study

- First Year** Mathematics, Engineering Science, Mechanics, Drawing, Construction Technology, Surveying and Complementary Studies.
- Second Year (Certificate Stage)** Structural Design and Detailing, Mathematics, Engineering Materials, Surveying, Construction Services and Supplies, Planning and Administration, Complementary Studies, Laboratory Work.
- Third Year (Diploma Stage)** Theory of Structures, Structural Design, Municipal and Road Engineering, Mathematics and Data processing, Management Studies and a Project.
- Examination and Other Requirements**
- (a) Students take a College examination at the end of each year which is moderated by the National Council for Educational Awards, and
  - (b) They are required to submit reports on their project and laboratory work.

#### Awards

Graduates of this course are eligible for the following awards:

- (a) **Technician Certificate/Diploma in Civil Engineering (Dublin Institute of Technology)**
- (b) **National Certificate/Diploma in Engineering (Civil) (National Council for Educational Awards)**

#### Recognition by Professional Bodies

Those who have successfully completed the Certificate Stage of this course meet the academic requirements for Technician status with the Institution of Engineers of Ireland, while those who have completed the Diploma stage meet the Technician Engineer level and can qualify for the non-Corporate Associateship grade of membership after they have completed a suitable period of practical training.

#### Career Opportunities

The qualification is appropriate to those wishing to enter engineering as a Technician specialising in Civil Engineering. Civil Engineering Technicians may be involved in the design and construction of buildings, bridges, roads, water supply, sanitary services, etc. They may also be involved in drafting, surveying, laboratory and field work, and the planning and supervision of contracts.

Graduates have good prospects of employment in contracting firms, engineering design offices, state and semi-state bodies, and research organisations engaged in Civil Engineering work.

## D46H

### BUILDING SERVICES ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA

This course prepares students for a Technician Certificate award in Building Services Engineering at the end of two years and for a Technician Diploma award at the end of a further year of study. The students attend the College from the end of September until the end of May each year and they spend the Summer months gaining practical experience in Heating, Ventilating and Air Conditioning design in Consulting Engineers' offices and related industry. The course requires an analytical ability to understand and solve technical problems.

#### Entrance Requirements

**First Year** - Leaving Certificate with good passes in Mathematics, a Science subject (preferably Physics), English and two other subjects or equivalent qualifications.

**Third Year (Diploma Stage)** - Students are expected to reach Credit or Distinction level in the Certificate Examination at the end of the second year to qualify for admission to the third year of the course leading to the Diploma award.

Students who hold a Pass Certificate and at least one year of appropriate post-Certificate experience may also be considered.

#### Course of Study

- First Year** Mathematics, Mechanics, Engineering Science, Drawing, Instrumentation and Materials, Building Construction and Services, and Complementary Studies.
- Second Year** Mathematics, Thermal and Fluid Plant, Electrotechnology and Industrial Instrumentation, Complementary Studies, Environmental Engineering Design, Environmental Plant, Lighting Acoustics and Water Services.
- Third Year** Mathematics, Complementary Studies, Electrotechnology and Controls, Process Plant Technology I, Environmental Engineering, Environmental Plant Design, Ancillary Services, and Project Work.
- Examination and Other Requirements**
- (a) Students take a College examination at the end of each year, which is moderated by the National Council for Educational Awards, and
  - (b) they are required to submit a report on their Summer vacation training each year and also reports on their project and laboratory work.

#### Awards

Graduates of this course are eligible for the following awards:

- (a) **Technician Certificate/Diploma in Environmental/Building Services Engineering (Dublin Institute of Technology).**
- (b) **National Certificate/Diploma in Engineering (Building Services) (National Council for Educational Awards).**

Those who have successfully completed the Certificate stage of this course meet the academic requirements for Technician status with the Institution of Engineers of Ireland, while those who have completed the Diploma



Stage are at Technician Engineer level and can qualify for the non-Corporate Associateship grade of membership after they have completed a suitable period of practical training.

### Career Opportunities

The qualification is appropriate to those wishing to enter engineering as a technician specialising in Environmental/Building Services Engineering. Environmental/Building Services Engineers are involved with the design and installation of all types of building services such as heating, ventilation, air-conditioning, water and electrical services. They are also involved with the drafting, planning and management of projects and the maintenance of plant and equipment.

Graduates have good prospects of employment with mechanical services contractors and in design offices. The range of jobs available includes engineering design, maintenance engineering, consulting engineering and technical sales.

D46M

## MECHANICAL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA

This course prepares students for a Technician Certificate award in Mechanical Engineering at the end of two years and for a Technician Diploma award at the end of a further year. The students attend the College for eight months each year commencing in September, and they spend the Summer period getting practical experience in industry, design offices etc. The course requires an analytical ability to understand and solve technical problems.

### Entrance Requirements

**First Year** - Leaving Certificate with good passes in Mathematics, a Science subject (preferably Physics), English and two other subjects or equivalent qualifications.

**Third Year (Diploma Stage)** - Students are expected to reach Credit or Distinction level in the Certificate Examination at the end of the second year to qualify for admission to the third year of the course leading to the Diploma award.

Students who hold a Pass Certificate and at least one year of appropriate post-Certificate experience may also be considered. The Diploma stage is specialised. At present two options are offered – Manufacturing Technology or Process Plant.

### Course of Study

#### First Year

Mathematics, Engineering Science, Drawing, Mechanics, Workshop Technology, Instrumentation and Materials, and Complementary Studies.

#### Second Year

Mathematics, Thermal and Fluid Plant, Electrotechnology and Controls, Complementary Studies, Mechanics, Drawing & Design, Production Technology, and Laboratory Work.

### Third Year

Common subjects: Mathematics; Electrotechnology and Controls, Complementary Studies

**Manufacturing Option:** Manufacturing Technology I & II, Manufacturing Management, Manufacturing Design, Mechanics and Project Work.

**Process Option:** Materials Science, Process Plant Technology I & II, Process Plant Design & Management and Project Work.

### Examination and Other Requirements

(a) Students take a College examination at the end of each session, which is moderated by the National Council for Educational Awards.

(b) They are required to submit a report on their industrial training each year and also reports on their Project and laboratory work.

### Awards

Graduates of this course are eligible for the following awards:

- (a) **Technician Certificate/Diploma in Mechanical Engineering (Dublin Institute of Technology)**
- (b) **National Certificate/Diploma in Engineering (Process or Manufacturing) (National Council for Educational Awards)**

Those who have successfully completed the Certificate Stage of this course meet the academic requirements for Technician status with the Institution of Engineers of Ireland, while those who have completed the Diploma Stage are at Technician Engineer level and can qualify for the non-Corporate Associateship grade of membership after they have completed a suitable period of practical training.

### Career Opportunities

The qualification is appropriate to those wishing to enter Engineering as a Technician specialising in Mechanical Engineering. Mechanical Engineers and Technicians are concerned with the design, manufacture and installation of all types of equipment ranging from individual items to complete factories or process plants. They may also be involved in drafting, detailed planning and management of projects and with plant maintenance.

Graduates have good prospects of employment in manufacturing or processing firms, research organisations, as well as state and semi-state agencies.



## TECHNOLOGICAL AND TECHNICIAN COURSES — PART-TIME

*Technological and Technician Courses*

### D31. BUILDING SERVICES ENGINEERING

This course prepares students, with an Environmental Engineering Technician Diploma or equivalent qualification, for the new Part II Examination of the Chartered Institute of Building Services (C.I.B.S.). It is a two year course and all applicants are expected to have a good background in Heating, Ventilating and Air Conditioning Engineering practice. Details of the syllabus and sample examination papers are available from the C.I.B.S. at 49 Cadogan Square, London SW1X 0JB.

### D41. GRADUATE COURSE IN ENGINEERING

A four-year part-time day and evening course in preparation for the examinations of the Professional Engineering bodies. This course of study is as set out for course E41 which is the parallel evening course.

### D43C. CIVIL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA COURSE

This part-time day and evening course prepares students for a Technician Certificate/Diploma in Civil Engineering. Students are expected to be already suitably employed in a Civil Engineering or Construction firm before commencing the course. It parallels course D46C and follows the same core syllabus.

#### Entrance Requirements

Leaving Certificate or equivalent with passes in Mathematics, a Science subject (preferably Physics), English, and two other subjects *or* a Senior Trade Certificate with suitable endorsement.

#### Course of Study

**Stage I — First and Second Year Subjects:** Mathematics, Engineering Science, Mechanics, Drawing, Surveying, Construction Technology and Complementary Studies.

**Stage II — Third and Fourth Years — Certificate Stage — Subjects:** Structural Design and Detailing, Engineering Materials and Laboratory Work. Mathematics and Computation, Construction Services and Supplies, Surveying, Planning and Administration, and Complementary Studies.

**Stage III — Fifth and Sixth Years — Diploma Stage:** This stage offers options in Municipal Engineering and Structural Engineering. Candidates are expected to be employed and gaining suitable experience in the appropriate field and are required to have passed the Certificate Stage with Credit, *or* have at least one year's suitable experience together with a Pass Certificate. Subjects: Mathematics, Road Engineering, Management Studies, Planning and Building Regulations, Hydraulics and Sanitary Services, Design and a Project (Municipal option) and Mathematics, Management Studies, Theory of Structures, Structural Design (Concrete), Structural Design (Steel), Municipal Engineering, and a project (Structural Option).

#### Examinations and Other Requirements

At the end of each year students take a College Examination which is moderated by the National Council for Educational Awards.

#### Recognition by Professional Bodies

Those who have successfully completed the Certificate Stage of this course meet the academic requirements for Technician status with the Institution of Engineers of Ireland, while those who have completed the Diploma stage meet the Technician Engineer level and can qualify for the non-Corporate Associateship grade of membership after they have completed a suitable period of practical training.

### D43M. MECHANICAL ENGINEERING TECHNICIAN CERTIFICATE AND DIPLOMA COURSE

This part-time day and evening course prepares students for a Technician Certificate/Diploma in Mechanical Engineering. Students are expected to be already suitably employed in Mechanical Engineering before commencing the course. It parallels course D46M and follows the same core syllabus.

#### Entrance Requirements

Leaving Certificate or equivalent with passes in Mathematics, a Science subject (preferably Physics), English, and two other subjects *or* a Senior Trade Certificate with suitable endorsement.

#### Course of Study

**Stage I — First and Second Year — Subjects:** Mathematics, Engineering Science, Mechanics, Drawing, Instrumentation and Materials, Workshop Technology and Complementary Studies.

**Stage II — Third and Fourth Year — Certificate Stage:** At this stage three options are offered: Mechanical, Welding and Fluid Power Engineering. Common Subjects: Mathematics, Thermal and Fluid Plant, Electrotechnology and Industrial Instrumentation, Complementary Studies. Mechanical Option: Mechanics, Drawing, Design and Engineering Materials, and Production Technology. Welding Option: Design and Materials, Welding Technology, and Welding Inspection.

Fluid Power Option: Fluid power I, Fluid Power Systems, and Machine Controls.

**Stage III — Fifth and Sixth Years — Diploma Stage —** At this stage an Instrumentation Option is offered on a part-time basis at present and candidates are expected to be employed in this field. Subjects: Mathematics, Mechanics, Complementary Studies, Electrotechnology and Electronics, Control Engineering, Industrial Instrumentation, Design, and Project Work. Candidates are required to have passed the Certificate Stage with Credit, *or* to have at least one year's suitable experience together with a Pass Certificate.



**Examinations and other Requirements**

At the end of each year students take a College examination which is moderated by the National Council for Educational Awards.

**Recognition by Professional Bodies**

Those who have successfully completed the Certificate Stage of this course meet the academic requirements for Technician status with the Institution of Engineers of Ireland, while those who have completed the Diploma stage meet the Technician Engineer level and can qualify for the non-Corporate Associateship grade of membership after they have completed a suitable period of practical training.

**D43V.**

**BUILDINGS SERVICES ENGINEERING TECHNICIANS CERTIFICATE AND DIPLOMA COURSE**

This part-time day and evening course prepares students for a Technician Certificate/Diploma in Environmental/Building Services Engineering. Students are expected to be already suitably employed in Building Services Engineering before commencing the course. It parallels Course D46H and follows a similar syllabus.

**Entrance Requirements**

Leaving Certificate or equivalent with passes in Mathematics, a Science subject (preferably Physics) and two other subjects or a Senior Trade Certificate with suitable endorsement.

**Course of Study**

**Stage I — First and Second Years**

Mathematics, Mechanics, Engineering Science, Drawing, Instrumentation, Building Construction and Services and Complementary Studies.

**Stage II — Third and Fourth Years — Certificate Stage**

At this stage two options are available, Building Services and Refrigeration Technology.

Common Subjects: Mathematics, Thermal and Fluid Plant, Electrotechnology and Industrial Instrumentation, Complementary Studies.  
Building Services Option: Environmental Engineering, Environmental Plant Design, Lighting, Acoustics and Water Services.  
Refrigeration Technology Option: Refrigeration Plant, Refrigeration Design, Lighting, Acoustics and Water Services.

**Stage III — Fifth and Sixth Years — Diploma Stage**

Mathematics, Management Studies, Electrotechnology and Controls, Process Plant Technology, Environmental Engineering, Ancillary Services, Project Management, Environmental Plant Design, and a Project.

**D47.**

**MECHANICAL ENGINEERING TECHNICIAN COURSE**

This part-time day and evening course is intended to prepare suitable students for the City & Guilds of London examinations for Mechanical Engineering Technicians (255). The course is for technicians and draughtsmen engaged in the following types of employment: Machine Tool Operation, Jig & Tool Design, Engineering Production and Design Draughtsmen.

**Entrance Requirements**

Elementary Stage Technological Certificate of the Department of Education examinations in Mechanical Engineering, Leaving Certificate or endorsement in Senior Craft Certificate.

**Course of Study**

**First Year**

Workshop Processes and Practice, Engineering Drawing and Materials, Engineering Science, Mathematics, General Studies.

**Second Year**

Science and Mathematics, Drawing and Materials, Production Technology and General Studies.

**Third Year**

Production Technology, Mathematics and Statistics, Metrology and Management Studies.

**Examinations and Other Requirements**

At the end of the first year students take the Part I examination of the City & Guilds of London Institute No. 255, Part II at the end of the second year, and Part III at the end of the third year.

**D59.**

**SHORT COURSE PROGRAMME**

A series of 2-5 day short courses on modern developments in Engineering Technology may be organised at different stages during the session. These may include:-

- (a) Low Cost Automation;
- (b) Fluid Power;
- (c) Maintenance Management Techniques;
- (d) Modern Production Methods;
- (e) New Developments in Welding Technology;
- (f) Fuel Technology;
- (g) Fire Safety;
- (h) CP110 and Structural Design;
- (j) New Materials;
- (k) Water Pollution Control;
- (l) Energy Conservation;
- (m) Engineering Costing and Estimating.



# Engineering

## EVENING COURSES

E31.

### BUILDING SERVICES ENGINEERING

This course prepares students, with an Environmental Engineering Technician Diploma or equivalent qualification, for the Part II Examination of the Chartered Institute of Building Services (C.I.B.S.). It is a two year course and all applicants are expected to have a good background in Heating, Ventilating and Air Conditioning Engineering practice. Details of the syllabus and sample examination papers are available from the C.I.B.S. at 49 Cadogan Square, London SW1X 0JB.

E41.

### GRADUATE COURSES IN ENGINEERING

A 4-year course to prepare students for the examinations of Professional Engineering bodies including:-

- (1) Institution of Engineers of Ireland.
- (2) Council of Engineering Institutions (CEI) and its constituent bodies including:-
  - (a) The Institution of Mechanical Engineers;
  - (b) The Institution of Production Engineers;
  - (c) The Institution of Structural Engineers;
  - (d) The Institution of Municipal Engineers.

Courses are offered for both Part I and Part II stages provided there are sufficient applicants of a suitable educational standard.

Part I. Some or all of the following subjects may be offered: Mathematics, Mechanics Thermodynamics, Electrotechnics, Properties of Materials and Presentation of Engineering Information.

Part II. Depending on demand, the following subjects may be offered: The Engineer in Society, Mechanics and Properties of Materials, Fluid Mechanics, Structural Analysis, Structural Design, Thermodynamics, Organisation of Large Constructions, Engineering Geology and possibly other subjects. Students are required to complete a laboratory programme as part of this stage.

Full details of the syllabus and examination regulations are contained in CEI Statement No. 10, available from the Council of Engineering Institutions, 2, Little Smith Street, London SW1, or from the Institution of Engineers of Ireland, 22 Clyde Road, Dublin 4.

#### Entrance Requirements

Before entry, applicants must meet the requirements of the appropriate Institution for Student Membership. They are urged to make early application to the Institution because it may take several months to process and it is not possible to sit the examination until this has been completed. Generally the requirements for the CEI are Advanced Level GCE in Mathematics and Physics and Ordinary Level GCE in English and two other subjects.

E42.

### MECHANICAL ENGINEERING TECHNOLOGICAL CERTIFICATE COURSE

This course is intended to prepare students for the Technological Certificate examinations of the Department of Education in Mechanical Engineering as follows:

At the end of the First year – Elementary Stage, Subjects: Mathematics, Mechanics, Heat, Drawing.

At the end of the Second year – Intermediate Stage, Subjects: Mathematics, Mechanics, Heat Engines, Drawing.

At the end of the Third year – Advanced Stage, Subjects: Mathematics, Mechanics, Heat Engines, Drawing.

#### Entrance Requirements

The entrance requirements are Department of Education Intermediate Certificate or Day Group Certificate with passes in Mathematics, English and a Science subject. Students with Leaving Certificate which includes a pass in Mathematics and a Science subject may enter the course at the second year stage.

E43C.

### CIVIL ENGINEERING TECHNICIANS' CERTIFICATE COURSE

This is a four-year evening course to prepare students in suitable employment for a Civil Engineering Technicians' Certificate. It parallels Course D43C and Course D46C and follows a similar syllabus.

#### Entrance Requirements

The entrance requirement is Leaving Certificate in five subjects including Mathematics or equivalent qualification.

#### Subjects

##### Stage I – First & Second Years

Mathematics, Mechanics, Engineering Science, Construction Technology, Drawing, Surveying and Complementary Studies.

##### Stage II – Third & Fourth Years – Certificate Stage

Structural Design and Detailing, Engineering Materials, Surveying, Mathematics and Computation, Planning and Administration, Construction Services, Complementary Studies.



- E43M. MECHANICAL ENGINEERING TECHNICIANS' CERTIFICATE COURSE**  
 This is a four-year evening course to prepare students in suitable employment for a Mechanical Engineering Certificate. It parallels Course D46M and D43M and follows a similar syllabus but more specialised options are available in both Fluid Power and Welding.
- Entrance Requirements** The entrance requirement is Leaving Certificate in five subjects including Mathematics and English, or the Senior Trade Certificate with endorsement, or equivalent qualification.
- Subjects** **Stage I – First & Second Years**  
 Mathematics, Engineering Science, Drawing, Mechanics, Instrumentation and Engineering Materials, Workshop Technology, Complementary Studies.
- Stage II – Third & Fourth Years – Certificate Stage**  
 At this stage three options are offered, Mechanical, Welding, and Fluid Power Engineering.  
 Common Subjects: Mathematics, Thermal and Fluid Plant, Electrotechnology and Industrial Instrumentation, Complementary Studies.  
 Mechanical Option: Mechanics, Drawing, Design and Engineering Materials, and Production Technology.  
 Welding Option: Design and Materials, Welding Technology and Welding Inspection.  
 Fluid Power Option: Fluid Power I, Fluid Power Systems and Machine Controls.

- E43V. BUILDING SERVICES ENGINEERING TECHNICIAN CERTIFICATE COURSE**  
 This is a four-year evening course to prepare students in suitable employment for an Environmental/Building Services Engineering Technicians' Certificate. It parallels Course D46H and Course D43V, and follows a similar syllabus.
- Entrance Requirements** Leaving Certificate in five subjects including Mathematics or Senior Trade Certificate with endorsement or equivalent qualification.
- Course of Study** **Stage I – First & Second Years**  
 Mathematics, Mechanics, Engineering Science, Drawing, Instrumentation, Building Construction and Services, and Complementary Studies.
- Stage II – Third & Fourth Years – Certificate Stage**  
 At this stage two options are available, Building Services and Refrigeration Technology.  
 Common Subjects: Mathematics, Thermal and Fluid Plant, Electrotechnology and Industrial Instrumentation, Complementary Studies.  
 Building Services Option: Environmental Engineering, Environmental Plant Design, Lighting, Acoustics and Water Services.  
 Refrigeration Technology Option: Refrigeration Plant, Refrigeration Design, Lighting, Acoustics and Water Services.

- E39. ROAD TRANSPORT COURSE**  
 This is a one-year evening course to prepare students for the Final Examinations for the Institute of Road Transport Engineers' Certificate of Professional Competence.
- Subjects** Road Transport Management, Management Techniques, Road Transport Engineering, Legislative Aspects, and Operational Principles.
- Entrance Requirements** The Institute of the Motor Industry Final Examinations or equivalent qualifications.
- E44. MOTOR INDUSTRY MANAGEMENT COURSE**  
 This is a two-year evening course to prepare students for the Final Associate Membership Examinations (External) of the Institute of the Motor Industry and the Final Examination of the Institute of Road Transport Engineers.  
 Classes are held on two evenings per week for 30 weeks each year.
- Entrance Requirements** Department of Education Advanced Motor Car Engineering Technological Certificate or the City and Guilds of London Institute Motor Vehicle Technicians Certificate Parts I and II (390).
- E47. MECHANICAL ENGINEERING TECHNICIAN COURSE**  
 This is a three-year evening course to prepare students for the Part I, Part II and Part III examinations of the City & Guilds Institute for Mechanical Engineering Technicians Course (255). Students should have a suitable craft background and hold the Senior Craft Certificate with endorsement, Elementary Technological Certificate in Mechanical Engineering, GCE, Leaving Certificate or equivalent.
- The course of study is as set out for Course D47 which is the parallel course operating by day.
- E49. AUTOMOBILE ENGINEERING COURSE**  
 Department of Education Elementary, Intermediate and Advanced Technological Certificates in Motor Car Engineering and I.M.I. Intermediate Group I.
- Duration of Course** 5 years of 30 weeks each year, 4 evenings (12 hours) each week.
- Subjects** Motor Car Engineering, Engineering Science and Mathematics, Automobile Electricity, Engineering Laboratory, General Studies including English, Drawing and Sketching, Garage Organisation & Management.
- Entrance Requirements** Day Vocational Group Certificate or Intermediate Certificate with Honours in certain specified subjects.



**E50. COMPUTER PROGRAMMING COURSE**

This is a two-year course in which students are prepared for the City & Guilds Examination No. 746 (Basic Certificate in Computer Programming). The main language used is BASIC.

**Entrance Requirements**

- (a) Leaving Certificate.  
(b) Commercial or industrial experience related to Computing.

The number of places is limited and applicants must present themselves at the College for interview between 7.00pm and 8.30pm during the week commencing 12th September. Only those with written evidence of (a) and (b) above will be considered for the course. Preference will be given to operators of medium to large installations.

**E54. STRUCTURAL DESIGN COURSE**

This is a one-year advanced course intended for those who wish to prepare for the Part III Design examination of the Institution of Structural Engineers. Depending on demand, there may be options in Steel or Concrete Design.

**Entrance Requirements**

A degree in Civil or Structural Engineering or a pass in the IEI/CEI examinations or equivalent, together with at least one year of suitable post-graduate experience in a structural design office.

**E57. INDUSTRIAL MANAGEMENT CERTIFICATE COURSE**

This two-year evening course is intended for engineering technicians and trainee production and industrial managers who wish to take the certificate examinations of the Institution of Industrial Managers.

**Entrance Requirements**

Students should have reached the Leaving Certificate standard of general education and be suitably employed as managers or supervisors in industry.

**Course of Study****First Year**

Production Analysis I, Economic Analysis, Organisation Analysis, Statistics and Micro Computers.

**Second Year**

Production Analysis II, Industrial Finance and Accounting, Psychology and Sociology, Industrial Relations.

**Examination and Other Requirements**

Students must pass a College examination at the end of each year. The examination is moderated by the Institution of Industrial Managers. Those who successfully complete the course will be exempt from the Certificate Examination requirements of the Institution of Industrial Managers and hence can qualify for Associate Membership of that body. Successful students are entitled to continue their studies for the one year Diploma course of the I.I.M.

Those who enrol are required to apply to become student members of the Institution prior to embarking on the Course.

**E58. REFRIGERATION ENGINEERING TECHNICIANS COURSE**

This is a one-year course for Technicians employed in the refrigeration engineering industry. Suitable students are prepared for the 257 City & Guilds of London Institute examinations in Science and Technology of Refrigeration. The subjects of instruction are:— Science, Refrigeration Processes and Machinery, and Drawing.

**E60. DOMESTIC HEATING AND ENVIRONMENTAL COURSE**

This three-year evening course prepares students for the examination of the Institute of Domestic Heating Engineers. Successful candidates will be eligible for entry to the Institute. Membership will gain entry, with some exemptions, to the part-time Building Services Engineering courses (D43V or E43V).

**Entrance Requirements**

The course is available to those who are employed in the heating industry.

**Duration of Course** Three evenings per week over three years.

**Course of Study****First Year**

Drawing, Physics, Mathematics, Heat Transfer.

**Second Year**

Mathematics, Heat Transfer, Systems, Combustion.

**Third Year**

Mathematics, Heat Transfer, Combustion.

**About the Institute**

The Institute of Domestic Heating Engineers was established in Britain in 1964. In 1982 the Irish branch of I.D.H.E gained autonomy and is now recognized as I.D.H.E. International.

The Institute awards its own diploma to candidates who successfully complete the three year course. The diploma entitles candidates to apply for use of the Institute's titles.

**E63. FIRE ENGINEERING COURSE**

This is a two-year course which prepares students for the Graduateship examinations of the Institute of Fire Engineers.

**Entrance Requirements**

Leaving Certificate or equivalent standard and employment as a Fire Officer.

**Subjects**

Science, Fireground Operations and Equipment, Fire Prevention and Equipment.



**E45. AERONAUTICAL ENGINEERING TECHNICIAN CERTIFICATE COURSE**

This course is intended for engineering apprentices employed in the Aviation Industry preparing for the Aeronautical Engineering Technician Certificate examinations of the City & Guilds of London Institute (Course 258 Part II) and the I.C.A.O. Licensed Maintenance Engineers' Licences issued by the Department of Transport.

**Entrance Requirements** Complete apprenticeship in appropriate engineering trade and employment in the Aviation Industry.

**E46. FLIGHT OPERATIONS OFFICER (DISPATCHER COURSE)**

**Purpose** To prepare Flight Operations Officers or Dispatchers in all operational aspects related to the preparation for commercial flights and the monitoring of all flights from a safety and efficiency viewpoint from the ground. It includes flight planning, aircraft loading, flight watch and operational considerations such as weight and runway limitations for the aircraft performance, weather, etc.

The Course follows the guidelines of I.C.A.O. Standardised Course 201.

**Duration** One year, two evenings a week.

**Entrance Requirements** A general knowledge of aviation appropriate to Pilots or Air Traffic Controllers.

**E48. AIRCRAFT TECHNICAL SUPPORT COURSE**

This course provides instruction for personnel employed in the aircraft back-up facility areas, e.g. Stores, Purchasing Supplies, Progress Chasing, Method Study and Work Study.

**Duration** It is a one-year course requiring attendance on two evenings per week.

**Entrance Requirements** Employment in the Aviation Industry.

**E51. PRODUCTION PLANNING COURSE (I.A.T.A.)**

This course provides instruction for personnel employed in the Planning Department of the Aeronautical Industry. The course covers Aircraft Organisation and Practice, Aircraft Operational and Production Technology.

**Entrance Requirements** Personnel employed in Planning Departments in the Industry, or holders of the City & Guilds of London Institute Certificate Course 258, Part II.

**Duration of Course** 3 evenings per week (290 hours plus 70 hours Aeronautical Projects).

**MAINTENANCE ENGINEERS' LICENCES OF THE DEPARTMENT OF TRANSPORT**

- E52A.** 'A' LICENCE – B.A.C. 1-11
- E52B.** 'A' LICENCE – B.707 B.720
- E52C.** 'A' LICENCE – B.737
- E52D.** 'A' LICENCE – B.747
- E52F.** 'C' LICENCE – P & W JT3 SERIES
- E52G.** 'C' LICENCE – P & W JT8D
- E52H.** 'C' LICENCE – P & W JT9D
- E52J.** 'C' LICENCE – ROLLS ROYCE SPEY
- E52M.** 'X' LICENCE – INSTRUMENTS
- E52N.** 'X' LICENCE – ELECTRICAL
- E52P.** 'X' LICENCE – RADIO
- E52Q.** 'X' LICENCE – RADIO (RADAR ENDORSEMENT)

The above courses provide instruction for Aircraft Maintenance Engineers, wishing to take the appropriate licence examinations of the Department of Transport. The courses are of one year's duration requiring attendance on two evenings per week.

**Entrance Requirements** Basic Aeronautical Engineering Certificate in appropriate category.

**E53. AVIONIC DIGITAL TECHNIQUES COURSE**

This is a four-year evening course for personnel employed in the Aircraft Industry in Electrical, Instrument and Radio Environments.

**Entrance Requirements** Aeronautical Engineering Certificate in the appropriate category or equivalent.



## **BASIC AERONAUTICAL ENGINEERING CERTIFICATES OF THE DEPARTMENT OF TRANSPORT**

- E55A. AIRFRAMES UNPRESSURISED (B.A.E.C. 1)**
- E55B. AIRFRAMES PRESSURISED (B.A.E.C. 2)**
- E55C. PISTON ENGINES (B.A.E.C. 3)**
- E55D. TURBO-PROP & TURBO-JET ENGINES (B.A.E.C. 4)**
- E55E. HELICOPTERS (LESS ENGINES) (B.A.E.C. 5)**
- E55F. ELECTRICAL (B.A.E.C. 6)**
- E55G. RADIO (B.A.E.C. 7)**
- E55H. INSTRUMENTS (B.A.E.C. 8)**

The above courses are of one year's duration requiring attendance for two evenings (6 hours) weekly per session. The courses are designed to prepare students for the Basic Aeronautical Engineering Certificate examinations of the Department of Transport.

### **Entrance**

### **Requirements**

Employment in the Aeronautical Engineering Industry.

Where students enrol for continuation or additional subjects with the above courses, an additional course fee is payable (e.g. for Dept of Education Trade or Technological subjects).

- E56A. PRIVATE AIRCRAFT PILOTS LICENCE**
- E56B. PRIVATE PILOTS LICENCE INSTRUMENT RATING**

These courses provide instruction in Meteorology, Navigation, Air Legislation and Aero Laboratory (Technical) for personnel wishing to take the Department of Transport Private Pilots Licence and the Private Pilots Licence Instrument Rating.

# School of Trades

## **CRAFT AND CRAFT BASED TECHNICIAN COURSES**





*The Minister for Labour, Mr. Liam Kavanagh T.D., presenting Diplomas and Prizes to successful students.*

The College offers day release, block release and evening courses for apprentices, craftsmen and technicians actually engaged in appropriate industries. The students are released from their employment, where appropriate, on full pay to attend classes.

The craft courses are designed to cover the requirements of the Junior and Senior Trade Certificate examinations of the Department of Education and corresponding examinations of the City & Guilds of London Institute. The subjects covered on these courses include the relevant trade theory and practice, together with Drawing, Engineering Science, Mathematics, Social Science, English and General Studies.

Although most of the apprentices are released directly from industry, an increasing number of first year apprentices are receiving formal "off-the-job" training in industrial or AnCO training centres in the practical skills of their trade and are released to attend classes in the other course subjects. In subsequent years their training and education requirements are provided by the College.

Post apprenticeship courses are provided where a demand for these courses exists, and opportunities are available for students who are successful in the Senior Trade Certificate Examination to proceed to higher level courses. These include a number of craft-based technician courses.

Evening courses in trade subjects, mainly at the more advanced levels, are organised on the basis of attendance on two evenings weekly, and provision is made for students to take the appropriate trade examinations.

All trade and trade related courses offered by the College are grouped within a number of Schools. The School of Engineering Trades provides courses for the Automobile, Aeronautical and general Engineering Trades. The School of Construction Trades provides courses for the trades of Carpentry & Joinery, Brickwork and Plasterwork, Constructional Steel, Welding and Fabrication, Plumbing, Wood Machining and Furniture manufacture. The School of Printing provides courses of education and training for all sections of the printing industry, including Lithographers, Compositors, Book-binders, Letter-press printers. It also provides special classes in print techniques for other College courses.



## DAY COURSES

**D101. BRICKWORK — DAY RELEASE**  
This course requires attendance on one day and one evening per week for the First and Second Year and one day only per week thereafter. The course is designed to allow students to take the Junior and Senior Trade Certificate examinations (Practical and Written) of the Department of Education and the City & Guilds of London Institute Craft Certificate Examinations.

**Entrance Requirements** Apprenticeship to the trade.

**D101A. BRICKWORK — OFF-THE-JOB COURSE**  
This course meets the requirements of apprentices who are attending full-time for one year at an AnCO Training Centre. Students attend the College on one day and one evening per week during this one year course. The course is designed to allow students to take the Junior Trade Certificate Examination of the Department of Education.

**Entrance Requirements** Enrolment as an apprentice in an approved Training Centre.

**D102. PLASTERWORK — DAY RELEASE**  
This course requires attendance on one day and one evening per week for the First and Second Year and one day only per week thereafter. The course is designed to allow students to take the Junior and Senior Trade Certificate examinations (Practical and Written) of the Department of Education and the City & Guilds of London Institute Craft Certificate Examinations.

**Entrance Requirements** Apprenticeship to the trade.

**D102A. PLASTERWORK — OFF-THE-JOB COURSE**  
This course meets the requirements of apprentices who are attending full-time for one year at an AnCO Training Centre. Students attend the College on one day and one evening per week during this one year course. The course is designed to allow students to take the Junior Trade Certificate Examination of the Department of Education.

**Entrance Requirements** Enrolment as an apprentice in an approved Training Centre.

## Craft Courses

**D105.**

### PAINTING AND DECORATING — DAY RELEASE

This course requires attendance on one day and one evening per week for the First and Second Year and one day per week thereafter. The course is designed to allow students to take the Junior and Senior Trade Certificate examinations (Practical and Written) of the Department of Education and the City & Guilds of London Institute Craft Certificate Examinations.

**Entrance Requirements** Apprenticeship to the trade.

**D105A.**

### PAINTING AND DECORATING — OFF-THE-JOB COURSE

This course meets the requirements of apprentices who are attending full-time for one year at an AnCO Training Centre. Students attend the College on one day and one evening per week during this one year course. The course is designed to allow students to take the Junior Trade Certificate Examination of the Department of Education.

**Entrance Requirements** Enrolment as an apprentice in an approved Training Centre.





**D107. VEHICLE BUILDING — DAY RELEASE**

This course requires attendance on one day and one evening per week for the First and Second Year and one day per week thereafter. The course is designed to allow students to take the City & Guilds of London Institute Examinations in Vehicle Body Craft Studies Part I and Part II.

**Entrance Requirements** Apprenticeship to the trade.

**D111. CABINETMAKING/CHAIRMAKING — DAY RELEASE**

This course requires attendance on one day and one evening per week for the First and Second Year and one day per week thereafter. The course is designed to allow students to take the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education.

**Entrance Requirements** Apprenticeship to the trade.

**D111A. CABINETMAKING/CHAIRMAKING — OFF-THE-JOB COURSE**

This course meets the requirements of apprentices who are attending full-time for one year at an AnCO Training Centre. Students attend the College on one day and one evening per week during this one year course. The course is designed to allow students to take the Junior Trade Certificate Examination of the Department of Education.

**Entrance Requirements** Enrolment as an apprentice in an approved Training Centre.

**D121. CARPENTRY AND JOINERY — DAY RELEASE**

This course requires attendance on one day and one evening per week for the First and Second Year and one day per week thereafter. The course is designed to allow students to take the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education and the City & Guilds of London Institute. The Junior examination is taken after two years and the Senior examination after four years. Students who complete the course satisfactorily can proceed to more advanced courses leading to City & Guilds of London Institute Examinations.

**Entrance Requirements** Apprenticeship to the trade.

**D122.****WOODCUTTING MACHINIST — DAY RELEASE**

This course requires attendance on one day and one evening per week for the First and Second Year and one day per week thereafter. The course is designed to allow students to take the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education and the City & Guilds of London Institute. The Junior examination is taken after two years and the Senior examination after four years. Students who complete the course satisfactorily can proceed to more advanced courses leading to City & Guilds of London Institute Examinations.

**Entrance Requirements** Apprenticeship to the trade.

**D124A****Objective****HEAVY VEHICLE MECHANICS — OFF-THE-JOB**

Department of Education Junior and Senior Group Trade Certificates plus endorsement subjects and the City & Guilds of London Craft Certificate.

**Duration of Course** Four years of 38 weeks each year.

**Attendance** One week (35 hours) in every three weeks for first year.

**Subjects** Heavy Vehicle Technology, Vehicle Electricity, Engineering Science, Mathematics, Technical Drawing, General Studies.

**Entrance Qualifications**

Day Vocational Group Certificate or Intermediate Certificate.

**D125****Objective****MOTOR CYCLE MECHANICS**

The City & Guilds of London Institute Craft Certificate 389.

**Duration of Course** Two years of 38 weeks each year.

**Attendance** One day (7 hours) and two evenings (6 hours) each week.

**Subjects** Motor Cycle Technology, Electricity, Engineering Science, Mathematics, Technical Drawing, Workshop Practice, General Studies.

**Entrance Qualifications**

Day Vocational Group Certificate or Intermediate Certificate.

**D126.****Objective****AUTOMOBILE ENGINEERING — BLOCK RELEASE**

Department of Education Junior and Senior Group Trade Certificates plus endorsement subjects and the City and Guilds of London Craft Certificate.

Block Release Course of 11 weeks during each year of apprenticeship with attendance at College for 35 hours each week.

**Duration of Course**

**Subjects**

Garage Practice, Motor Workshop Practice, Motor Vehicle Theory, Motor Vehicle Science and Electricity, Mathematics and Craft Calculations, Technical Drawing, General Studies, Physical Education.

**Entrance Qualifications**

Day Vocational Group Certificate or Intermediate Certificate.



**D127. AUTOMOBILE ENGINEERING — DAY RELEASE**  
**Objective** Department of Education Junior and Senior Group Trade Certificates plus endorsement subjects and the City and Guilds of London Craft Certificate.  
**Duration of Course** 4 years of 38 weeks each year.  
**Attendance** 1 day (7 hours) and 2 evenings (6 hours) each week.  
**Subjects** Motor Vehicle Technology, Motor Vehicle Electricity, Engineering Science, Mathematics, Technical Drawing, Garage and Motor Workshop Practice, General Studies.  
**Entrance Qualifications** Day Vocational Group Certificate or Intermediate Certificate.

**D127A AUTOMOBILE ENGINEERING CRAFT — LIGHT VEHICLE MECHANICS — OFF-THE-JOB**  
**Objective** Department of Education Junior Trade Certificate with Endorsements.  
**Duration of Course** Four years of 38 weeks each year.  
**Attendance** One week (35 hours) every 3 weeks for first year. One day (7 hours) and two evenings (6 hours) each successive year.  
**Subjects** Motor Vehicle Technology, Motor Vehicle Electricity, Engineering Science, Mathematics, Technical Drawing, General Studies.  
**Entrance Qualifications** Day Vocational Group Certificate or Intermediate Certificate.

**D127B AUTOMOBILE ENGINEERING CRAFT — LIGHT VEHICLE MECHANICS — OFF-THE-JOB (ONE AND A HALF DAY RELEASE)**  
**Objective** Department of Education Junior Trade Certificate with Endorsements  
**Duration of Course** Four Years of 38 weeks each year.  
**Attendance** One and a Half Days (10 hours) and One Evening (3 hours) each week.  
**Subjects** Motor Vehicle Technology, Motor Vehicle Electricity, Engineering Science, Mathematics, Technical Drawing, General Studies.  
**Entrance Qualifications** Day Vocational Group Certificate or Intermediate Certificate.

**D128. CONSTRUCTION PLANT FITTERS COURSE**  
**Objective** The City & Guilds of London Institute 620, Parts I and II.  
**Duration of Course** Block Release Course of 11 weeks during each year of apprenticeship with attendance at College for 35 hours each week.  
**Subjects** Plant Technology, Plant Vehicle Electricity, Engineering Science, Mathematics, Technical Drawing, Garage and Workshop Practice, General Studies.  
**Entrance Qualifications** Day Vocational Group Certificate or Intermediate Certificate.

**D129. CONSTRUCTION PLANT FITTERS COURSE**  
**Objective** The City & Guilds of London Institute 620, Parts I and II.  
**Duration of Course** 4 years of 38 weeks each year.  
**Attendance** 1 day (7 hours) and 2 evenings (6 hours) each week.  
**Subjects** Plant Technology, Plant Vehicle Electricity, Engineering Science, Mathematics, Technical Drawing, Garage and Workshop Practice, General Studies.  
**Entrance Qualifications** Day Vocational Group Certificate or Intermediate Certificate.

**D129A CONSTRUCTION PLANT FITTERS COURSE — OFF-THE-JOB**  
**Objective** The City & Guilds of London Institute 620, Parts I and II.  
**Duration of Course** 4 years of 38 weeks each year.  
**Attendance** One week (35 hours) every 3 weeks for the first year.  
**Subjects** Plant Technology, Plant Vehicle Electricity, Engineering Science, Mathematics, Technical Drawing, General Studies.  
**Entrance Qualifications** Day Vocational Group Certificate or Intermediate Certificate.

**D130. MOTOR VEHICLE PARTSMEN**  
**Objective** The City & Guilds of London Institute Vehicle Partsman Certificate 384.  
**Duration of Course** 2 years part-time day and evening course (9 hours per week).  
**Subjects** Parts Merchandising, Commercial Practice and Office Procedures, Stores Administration, Motor Vehicle Knowledge, General Studies including English.  
**Entrance Qualifications** The City & Guilds of London Institute 380, Part I, or 381, Part I.

**D131. MOTOR VEHICLE BODY REPAIR**  
**Objective** The City & Guilds of London Institute 385, Parts I and II Certificates, plus the Society of the Irish Motor Industry Certificate.  
**Duration of Course** 2 years part-time day and evening course, 1 day (7 hours) and 2 evenings (6 hours) each week. 38 weeks each year.  
**Subjects** Motor Vehicle Knowledge, Motor Vehicle Body Repair, Engineering Science, Mathematics, Technical Drawing, Welding, Workshop and Laboratory Practice.  
**Entrance Qualifications** The City & Guilds of London Institute 380, Part I, or 381 Part I.



**D134. AUTO-ENGINEERING TECHNICIANS**

**Objective** Department of Education Advanced Motor Car Engineering Technological Certificate and the City & Guilds of London Institute Motor Vehicle Technicians Full Technological Certificate 390 Parts II and III.

**Duration of Course** 1 year part-time day (7 hours) and 2 evenings (6 hours) each week for 38 weeks.

**Subjects** Motor Car Engineering, Automobile Electricity, Heat Engines, Applied Mechanics, Garage Organisation and Management.

**Entrance Qualifications** Department of Education Senior Trade Certificate with endorsement subjects and Department of Education Intermediate Motor Car Engineering Technological Certificate (2 subjects) or the City & Guilds of London Institute 390, Part I.

**D136. AUTOMOBILE ENGINEERING REFRESHER COURSE**

**Objective** Continuing Education Programme to prepare for the City & Guilds of London Institute 381, Part III, Modular.

**Duration of Course** Short courses of 4 weeks duration on modern developments and techniques in the industry. 2 evenings (5 hours) each week.

**Entrance Qualifications** Department of Education Senior Trade Certificate.

**D140. FITTING AND TURNING**

**Objective** Department of Education Trade Certificate (Senior Stage only).

**Duration of Course** Two years of day release (1 day each week) for third and fourth year apprentices.

**Subjects** Workshop Practice and Workshop Technology.

**Entrance Qualifications** Department of Education Junior Trade Certificate or equivalent.

**D140A. FITTING AND TURNING**

These courses are organised for fitting and turning apprentices attending "off-the-job" courses in Training Centres.

**Objective** Department of Education Junior Trade Certificate with endorsements.

**Duration of Course** One year of day release (1½ days and 1 evening each week, or one week in three over the session).

**Subjects** Workshop Technology, Mathematics & Craft Calculations, Technical Drawing, General Studies, Engineering Science.

**Entrance Qualifications** Day Vocational Group Certificate or Intermediate Certificate or equivalent.

**D141. FITTING AND TURNING**

**Objective** Department of Education Junior and Senior Trade Certificates with endorsements.

**Duration of Course** Four years of block release (11 weeks each year).

**Subjects** Workshop Practice, Workshop Technology, Mathematics and Craft Calculations, Physical Education, Technical Drawing, General Studies, Engineering Science.

**Entrance Qualifications** Day Vocational Group Certificate or Intermediate Certificate or equivalent.

**D142. TOOLMAKING**

This course caters for toolmaking apprentices.

**Objective** Department of Education Trade Certificate examinations with endorsements.

**D145. FOUNDRY MOULDER/COREMAKER — BLOCK RELEASE**

This course is conducted at intervals to meet the needs of the Foundry Industry. Students are nominated by their employers or are sponsored by AnCO — The Industrial Training Authority. The course is based on the syllabus for foundry craft studies of the City & Guilds of London Institute and normally entails attending four Block Release courses, each of 11 weeks duration spread over a 4 year cycle.

The course involves both practical and theoretical training in Safe Working Practice, Materials, Methods, Equipment and Related Studies.

In cases where students are employed in foundries outside the Dublin area, a one year off-the-job course may be provided entailing Full-time attendance for one year and Block Release attendance for a further two years.

**Entrance Requirements** Intermediate or Day Vocational Group Certificate and be employed as an apprentice in the Foundry Industry.



**D149. SHEET METALWORK — DAY RELEASE**

This course requires attendance on one day and one evening per week for the First and Second Year and one day per week thereafter. The course is designed to allow students to take the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education and the City & Guilds of London Institute. Generally, students take the Junior Stage examination after two years and the Senior Stage after four years. Students who complete the course satisfactorily can proceed to more advanced courses leading to City & Guilds of London Institute qualifications.

**Entrance Requirements** Employment as a Sheet Metalwork apprentice.

**D149A SHEET METALWORK — OFF-THE-JOB**

This course meets the requirements of first year apprentices undergoing off-the-job training in a training centre. The apprentices attend the College on 1½ days plus one evening per week for classes in Trade Technology, Mathematics, Science, Drawing and General Studies. On completion of the course, students are expected to sit the Junior Trade Certificate Examination (Written and Practical) of the Department of Education.

**Entrance Requirements** Employment in the Sheet Metal Industry as an apprentice.

**D150. METAL FABRICATION — DAY RELEASE**

This course requires attendance on one day and one evening per week for the First and Second Year and one day per week thereafter. The course is designed to allow students to take the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education and the City & Guilds of London Institute. Generally, students take the Junior Stage examination after two years and the Senior Stage examination after four years. Students completing the course in a satisfactory manner can proceed to City & Guilds of London examinations.

**Entrance Requirements** Employment as a Metal Fabrication apprentice.

**D150A METAL FABRICATION — OFF-THE-JOB**

This course meets the requirements of first year apprentices undergoing off-the-job training in a training centre. The apprentices attend the College on 1½ days plus one evening per week for classes in Trade Technology, Mathematics, Science, Drawing and General Studies. On completion of the course, students are expected to sit the Junior Trade Certificate Examination (Written and Practical) of the Department of Education.

**Entrance Requirements** Employment in the Metal Fabrication Industry as an apprentice.

**D150B METAL FABRICATION — Sandwich Course**

This course meets the requirements of first year apprentices undergoing off-the-job training in a Training Centre. The apprentices attend the College for one week in every three throughout the school year. They take classes in Trade Technology, Mathematics, Science, Drawing and General Studies. On completion of the course, students are expected to sit the Junior Trade Certificate Examination (Written and Practical) of the Department of Education.

**D151. PLUMBING — DAY RELEASE**

This course requires attendance on one day and one evening per week for the First and Second Year and one day per week thereafter. The course is designed to allow students to take the Junior and Senior Trade Certificate Examinations (Practical and Written) of the Department of Education. The Junior examination is taken after two years and the Senior examination after four years. Students who complete the course satisfactorily can proceed to more advanced courses leading to City & Guilds of London Institute Examinations or to Environmental Engineering Technician Courses.

**D151A. PLUMBING — OFF-THE-JOB**

This course meets the requirements of first year apprentices undergoing off-the-job training in a Training Centre. The apprentices attend the College on one day plus one evening per week for classes in Trade Technology, Mathematics, Science, Drawing and General Studies. On completion of the course, students are expected to sit the Junior Trade Certificate Examination (Written and Practical) of the Department of Education.

**Entrance Requirements** Employment in the Plumbing and Heating Industry as an apprentice.

**D151B. PLUMBING — BLOCK RELEASE**

This requires full-time attendance for 11 weeks each year over a period of two years after which students revert to the Day Release course, as already outlined, for a further two years. It is designed to meet the requirements of apprentices who may be involved in contract work in the country.



**D154. AERONAUTICAL ENGINEERING CRAFT STUDIES**

**D154/1 First Stage**

This is a one-year course requiring attendance of one day and two evenings (13 hours) weekly per session. The course is designed to prepare students for the Part I of the City & Guilds of London Institute examinations in Aeronautical Engineering Craft Studies (Course 208)

**Entrance Requirements** Day Vocational Group Certificate, Intermediate Certificate or equivalent and be employed in the Aeronautical Engineering Industry.

**Second Stage**

**D154/2A. (Mechanical)**

**D154/2B. (Avionics)**

These courses are designed to prepare students for Part II of the City & Guilds of London Institute Examinations in Aeronautical Engineering Craft Studies (Course No. 208). Students may specialise in Mechanical Engineering or Avionics. Classes are held on one day and two evenings per week.

**Entrance Requirements** Part I City & Guilds Aero Engineering Craft Studies.

**Third Stage**

**D154/3A. (Mechanical)**

**D154/3B. (Avionics)**

These courses are designed to prepare students for Part III of the City & Guilds of London Institute examinations in Aeronautical Engineering Craft Studies (Course 208). Classes are held on one day and two evenings per week.

**Entrance Requirements** Part II, City & Guilds Aero Engineering Craft Studies.

**CRAFT & RELATED COURSES — EVENING**

**E1**

**CONSTRUCTION TECHNICIAN COURSE**

This is a four year evening course in Building Construction and associated subjects in preparation for the Department of Education and City & Guilds of London Institute examinations. It is organised by the Department of Building Trades B in Linen Hall.

**Course Duration** 4 years — 3 evenings per week.

**Objectives** Elementary level examination at the end of the second year. Intermediate level examination at the end of the third year. Advanced level examination at the end of the fourth year.

**Entry Requirements** Employment in the Construction Industry. Exemption from First Year of the course may be granted to an applicant who has achieved an acceptable level in Drawing and Building Subjects. Success in the Elementary Stage examination is a requirement for entry into the Third Year of the course. Success in the Intermediate Stage examination is a requirement for entry into the Final Year of the course.

**Subjects** 1st and 2nd Year  
Building Construction, Materials, Mathematics and Geometry.

3rd Year  
Building Construction, Materials, Quantities and Estimating, Land Surveying and Setting-out or Intermediate Geometry.

4th Year  
Building Construction, Quantities and Estimating, Plane and Solid Geometry.

**E101.**

**BRICKWORK**

This course is designed to assist students to prepare for the Senior Trade Certificate Examinations of the Department of Education and the Advanced Certificates of the City & Guilds of London Institute.

**Duration** One year, one evening per week.

**Subjects** Trade Theory & Drawing.

**Entry Requirements** Prospective students must have completed 3 years of apprenticeship and hold the Department of Education Junior Trade Certificate.



**E102. PLASTERWORK**

This course is designed to assist students to prepare for the Senior Trade Certificate Examination of the Department of Education and the Advanced Certificates of the City & Guilds of London Institute.

**Duration** One year, one evening per week.

**Subjects** Trade Theory & Drawing.

**Entry Requirements** Prospective students must have completed 3 years of apprenticeship and hold the Department of Education Junior Trade Certificate.

**E105. PAINTING & DECORATING**

This course is designed to assist students to prepare for the Senior Trade Certificate Examination of the Department of Education and the Advanced Certificates of the City & Guilds of London Institute.

**Duration** One year, one evening per week.

**Subjects** Trade Theory & Drawing.

**Entry Requirements** Prospective students must have completed 3 years of apprenticeship and hold the Department of Education Junior Trade Certificate.

**E107. VEHICLE BODY BUILDING**

This course is designed to assist students to prepare for appropriate Advanced Certificate Examinations of the City & Guilds of London Institute.

**Duration** One year, one evening per week.

**Subjects** Trade Theory & Drawing.

**Entry Requirements** Prospective students must have completed 3 years of apprenticeship and have passed the City & Guilds of London Institute Certificate Examination Part I Vehicle Body Building & Repair.

**E111. CABINETMAKING / CHAIRMAKING**

This course is designed to assist students to prepare for the Senior Trade Certificate Examination of the Department of Education and the Advanced Certificates of the City & Guilds of London Institute.

**Duration** One year, one evening per week.

**Subjects** Trade Theory & Drawing.

**Entry Requirements** Prospective students must have completed 3 years of apprenticeship and hold the Department of Education Junior Trade Certificate.

**E121. CARPENTRY AND JOINERY — ADVANCED**

This course is designed to assist senior apprentices and craftsmen to prepare for the Senior Trade Certificate Examination of the Department of Education and the Advanced Certificate of the City & Guilds of London Institute.

**Duration** One year, two evenings per week.

**Subjects** Trade Theory, Trade Practice & Drawing.

**Entry Requirements** Prospective students must have passed the Junior Trade Certificate Examination in Carpentry and Joinery.

**E125. MOTOR CYCLE MECHANICS**

The City & Guilds of London Institute Craft Certificate 389.

**Duration of Course** 2 years of 30 weeks each year, 3 evenings (9 hours) each week.

**Subjects** Motor Cycle Technology, Electricity, Engineering Science, Mathematics, Technical Drawing, Workshop Practice, General Studies.

**Entrance Requirements** Employment as a motor cycle mechanic.

**E128. CONSTRUCTION PLANT FITTERS**

The City & Guilds of London Institute 620, Part III.

**Duration of Course** 1 year of 38 weeks, 2 evenings (6 hours) each week.

**Subjects** Power Units and Associated Systems, Vehicle Systems and Vehicle Recovery.

**Entrance Qualifications** The City & Guilds of London Institute 620, Parts I and II.

**E129. ELECTRICAL VEHICLE MAINTENANCE**

Continuing Education Programme.

**Duration of Course** 1 year of 38 weeks, 2 evenings (6 hours) each week.

**Subjects** Electric Traction Motors, Switching — Electronic and Rotary, Electric Vehicle Technology.

**Entrance Qualifications** Department of Education Senior Trade Certificate or equivalent.



**E130. MOTOR VEHICLE PARTSMEN**

- Objective** The City & Guilds of London Institute 384, Part II, Vehicle Partsmen.
- Duration of Course** 2 years, 30 weeks per year, 2 evenings per week (6 hours).
- Subjects** Parts Merchandising, Commercial Practice and Office Procedures, Stores Administration, Motor Vehicle Knowledge.
- Entrance Qualifications** The City & Guilds of London Institute 380, Part I or 381, Part I, or equivalent.

**E131 MOTOR VEHICLE BODY REPAIR**

- Objective** The City & Guilds of London Institute 385 Parts I and II Certificates.
- Duration of Course** Four years. Three weeks each year.
- Attendance** Three evenings (9 hours) each week.
- Subjects** Motor Vehicle Knowledge, Motor Vehicle Body Repair, Engineering Science, Mathematics, Technical Drawing, Welding, Workshop and Laboratory Practice.
- Entrance Qualifications** Day Vocational Group Certificate or Intermediate Certificate.

**E133A MOTOR VEHICLE CRAFT STUDIES — DIAGNOSTIC TECHNIQUES**

- Objective** The City & Guilds of London Institute 381 Part III.
- Duration of Course** One year of 30 weeks.
- Attendance** Three evenings (9 hours) each week.
- Subjects** Diagnostic Techniques (engine), Diagnostic Techniques (transmission), Automatic Gearboxes.
- Entrance Qualifications** City & Guilds of London Institute 381 Part II or equivalent.

**E133B MOTOR VEHICLE CRAFT STUDIES — COMPRESSED AIR SYSTEMS**

- Objective** The City & Guilds of London Institute 381 Part III.
- Duration of Course** One year of 30 weeks.
- Attendance** Three evenings (9 hours) each week.
- Subjects** Compressed Air Brakes, Compression Ignition Engines, Fuel Injection Equipment, C.I. Engines.
- Entrance Qualifications** City & Guilds of London Institute 381 Part II or equivalent.

**E133C MOTOR VEHICLE CRAFT STUDIES — ELECTRICITY**

- Objective** The City & Guilds of London Institute 381 Part III.
- Duration of Course** One year of 30 weeks.
- Attendance** Three evenings (9 hours) each week.
- Subjects** Motor Vehicle Electricity.
- Entrance Qualifications** City & Guilds of London Institute 381 Part II or equivalent.

**E134. FORK TRUCK MAINTENANCE**

- Objectives** Continuing Education Programme
- Duration of Course** 6 weeks of 5 hours each week (30 hours).
- Subjects** Electro-Hydraulic Equipment i.e. Engine Overhaul and Maintenance.
- Entrance Qualifications** Department of Education Senior Trade Certificate.

**E136. AUTOMOBILE ENGINEERING REFRESHER COURSE**

- Objective** Continuing Education Programme.  
The City & Guilds of London Institute 381, Part III, Modular.
- Duration of Course** Short courses of 3 days duration on modern developments and techniques in the industry.
- Entrance Qualifications** Department of Education Senior Trade Certificate.

**E141 SUPPLEMENTARY CRAFT STUDIES — NC / CNC MACHINE TOOL SETTING AND OPERATION**

- Objective** This is a one-year course to prepare mechanical engineering craftspersons for the City & Guilds 202 Supplementary Craft Studies Certificate.
- Entrance Qualifications** Senior Trade Certificate, Department of Education  
City & Guilds of London Institute 205 Part II.



**E142. MECHANICAL ENGINEERING CRAFT STUDIES**

**Objective** The City & Guilds of London Institute Mechanical Engineering Craft Studies Course No. 205, Part II and Part III. Students take Part II of the examination at the end of the first year of the Course and Part III at the end of the second year.

**Duration of Course** Two years (2 evenings per week).

**Subject Options** Four options may be offered at Part III as follows :-  
 E142A Maintenance  
 E142B Machinery  
 E142C Toolmaking  
 E142D Inspection

**Entrance Qualifications** Department of Education Junior Trade Certificate or equivalent and current attendance on block or day release courses.

**E143. WELDING — GAS SHIELDED ARC — MIG and TIG**

This one year evening course is designed to enable Senior Apprentices and Craftsmen employed at Welding, Sheet Metal Work, Metal Fabrication or Plumbing to become more proficient at this type of Welding and to have the opportunity to study the related Welding Technology.

**Entrance Requirements** Prospective students must have successfully completed the Senior Stage of the Department of Education Craft Certificate Examination, Theory and Practice, or equivalent in one of the trades listed above.

**Examination** City & Guilds of London Institute Welding Craft Practice Course No. 165, Part II Advanced Gas Shielded Arc — Option.

**E143A. SHORT COURSE IN WELDING**

This course is designed to meet the needs of craftsmen employed in the engineering or allied industries who have little or no knowledge of welding. It is a basic course covering both gas and electric-arc welding. Each course is of six weeks duration, meeting on two evenings each week from 7.00 p.m. to 9.30 p.m.

**Entrance Requirements** Employment as a craftsman in the engineering or allied trades.

**E147. CONSTRUCTION DRAWING COURSE**

This new two-year evening course is designed for the student with ability and a keen interest in draughting. Different aspects of Construction Drawing will be covered.

**Entrance Requirements** A Pass in the Drawing element of a Department of Education Craft Certificate, Junior Stage and/or successful completion of an entrance test.

**Examination & Other Requirements** At the end of each year, students take a College Examination and an overall assessment of each student's performance will be made.

**E148. FABRICATION & WELDING CRAFT TECHNICIAN COURSE**

This three-year evening course of study has been designed to enable senior apprentices and craftspersons to qualify as Craft Technicians and be capable of filling supervisory positions in the Metal Fabrication and Welding Industry.

**Course of Study** **Stage I:** Drawing & Development, Construction Materials & Processes, Mathematics and Engineering Science.

**Stage II:** Structural Drawing & Detailing, Graphical Communication, Joining Process Technology, Mathematics and Engineering Science.

**Stage III:** Plant Maintenance and Ancillary Services, Inspection Testing and Quality Control, Principles of Management, Design of Joints, Computer Studies, Project Work.

**Entrance Requirements** Prospective students must have completed at least three years of an appropriate craft apprenticeship and have successfully completed the Senior Stage of the Department of Education Craft Certificate Examinations, written and practical, with at least one endorsement subject where such is offered.

**Examination and Other Requirements** At the end of each Stage, students will be required to sit a College examination in each subject, and pass it, before proceeding to the next Stage. A College Craft Technician Certificate will be awarded to students who have passed the College Examinations in all subjects, including the required class and project work.

**E149. SHEET METAL WORK — ADVANCED**

This advanced evening course is conducted on two evenings per week and prepares students for the City & Guilds of London — Part III — Examination in Sheet Metal and Thin Plate Craft Studies No. 216.

This course will run concurrently with Stage I of course E148.

**Entry Requirements** Employment in the sheet metal trade and hold the Department of Education Senior Trade Certificate in Sheet Metal Work or equivalent.

**E149A. SHEET METAL WORK**

This course is designed to assist Senior Craftsmen to prepare for the Senior Trade Certificate Examination of the Department of Education.

**Duration** One year, one evening per week.

**Subjects** Trade Theory & Drawing

**Entry Requirements** Prospective students must have completed 3 years of apprenticeship and hold the Department of Education Junior Trade Certificate.



# **E150. METAL FABRICATION — ADVANCED**

This advanced evening course is conducted on two evenings per week and prepares students for the City & Guilds of London Institute — Part III — Examination in Structural and Thick Plate Craft Studies No. 217. This course will run concurrently with Stage I of course E148.

**Entry Requirements** Employment in the metal fabrication trade and hold the Department of Education Senior Trade Certificate in Metal Fabrication or equivalent.

# **E150A. METAL FABRICATION**

This course is designed to assist Senior Apprentices and Craftsmen to prepare for the Senior Trade Certificate Examination of the Department of Education.

**Duration** One year, one evening per week.

**Subjects** Trade Theory & Drawing

**Entry Requirements** Prospective apprentices must have completed 3 years of apprenticeship and have passed the Junior Trade Certificate.

# **E151. PLUMBING — ADVANCED**

This is a one-year course requiring attendance on three evenings weekly. The course is designed to prepare students for the City & Guilds of London Institute Examinations for the Plumbing Advanced Craft Certificates (Course 596).

**Entry Requirements** Department of Education Senior Trade Certificate (Practical and Written) in Plumbing or equivalent and be employed in the Plumbing and Heating Industry.

# **E151A. PLUMBING**

This course is designed to assist Senior Apprentices and Craftsmen to prepare for the Senior Trade Certificate Examination of the Department of Education.

**Duration** One year, one evening per week.

**Subjects** Trade Theory & Drawing.

**Entry Requirements** Prospective apprentices must have completed 3 years of apprenticeship and have passed the Junior Trade Certificate.

# **E151B. PLUMBING CRAFT TECHNICIAN COURSE**

This new three-year course of study has been designed to prepare craft technicians for the Plumbing Industry. Subjects of the course include Hot and Cold Water Systems, Domestic Central Heating, Gas and Oil Installations, Sanitation and Drainage, Plumbing Drawing and Design, Mechanics of Fluids, Measurements and Specifications, Site Procedures, Mathematics and Science.

**Entry Requirements** Prospective students must have completed at least three years of an appropriate craft apprenticeship and have successfully completed the Senior Stage of the Department of Education Craft Certificate Examination (Written and Practical) with endorsement where such is offered.

# **E154. AERONAUTICAL ENGINEERING CRAFT STUDIES**

## **E154/1 Stage 1**

This is a one-year evening course requiring attendance for two evenings (6 hours) weekly per session. The course is designed to prepare students for Part I of the City & Guilds of London Institute Examinations in Aeronautical Engineering Craft Studies (Course 208).

**Entrance Requirements** Day Vocational Group Certificate or Intermediate Certificate and be employed in the Aeronautical Engineering Industry.

## **Stage II (Mechanical)**

## **E154/2A. E154/2B. (Avionics)**

These courses are designed to prepare students for Part II of the City & Guilds of London Institute Examination in Aeronautical Engineering Craft Studies (Course No. 208). Students may specialise in Mechanical Engineering or Avionics. Classes are held on two evenings per week.

**Entrance Requirements** Part I City & Guilds Aero Engineering Craft Studies.

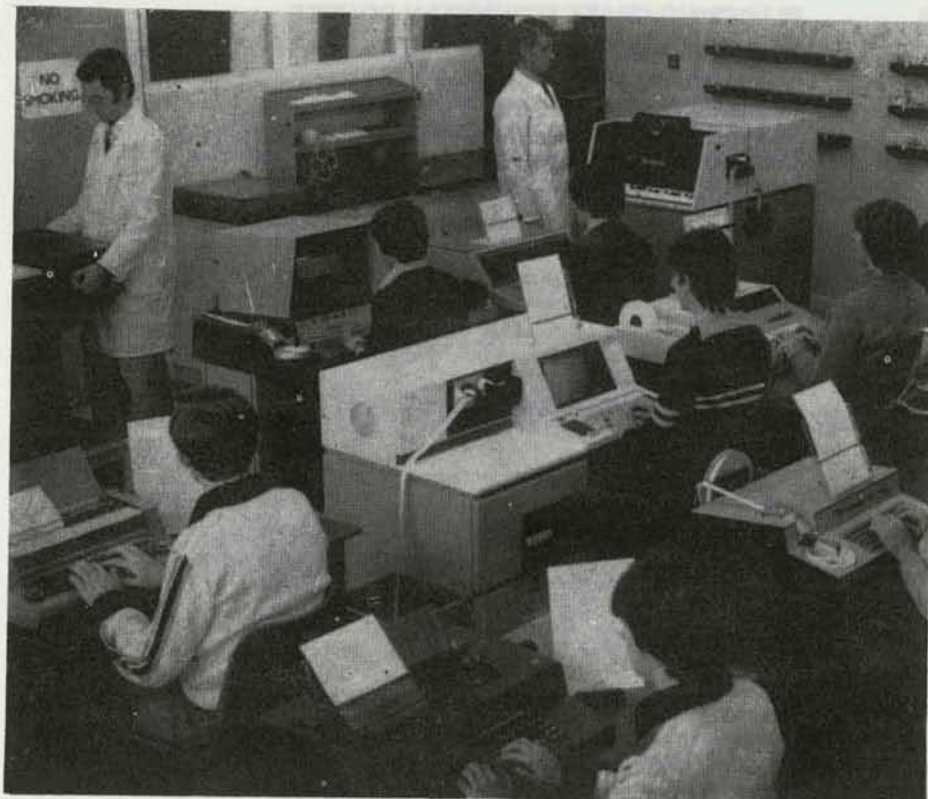
## **Stage III (Mechanical)**

## **E154/3A. E154/3B. (Avionics)**

These courses are designed to prepare students for Part III of the City & Guilds of London Institute Examinations in Aeronautical Engineering Craft Studies (Course No. 208). Classes are held on two evenings per week.

**Entrance Requirements** Part II City & Guilds Aero Engineering Craft Studies.





The School provides courses at technological, technician and apprentice level in the following disciplines:-

## COMPOSING

The Composing Department covers the requirements of the Department of Education Syllabus up to Senior level. The curriculum includes instruction in Theory, Practice, Typographic Design, Mechanical Composition, Phototypesetting, Direct Impression Composition, Paper Paste-up, Film Assembly, Planning, Applied Science, Industrial Studies, Irish.

## PHOTOTYPOGRAPHY

Courses in this section are for training suitably qualified personnel in the use of phototypesetting and direct impression composition equipment. There are courses in Paper Paste-up and Film-make-up, combined with Photo Headliner setting techniques; also planning for Nyloprint and Litho platemaking.

## LETTERPRESS MACHINE PRINTING

The Letterpress Department covers the requirements of the Department of Education Syllabus up to Senior level. The curriculum includes instruction in Theory, Practice, Applied Science, Industrial Studies and Irish.

## LITHOGRAPHY AND PHOTO LITHOGRAPHY

The Lithographic Department covers the requirements of the Department of Education Syllabus up to Senior level. The course provides a sound training in Photolithographic platemaking, step and repeat work, and offset printing. It includes instruction in the Theory and Practice of Platemaking and Press operation, Applied Science and Industrial Studies.

## BOOKBINDING AND PRINT FINISHING

The Bookbinding Department covers the requirements of the Department of Education Syllabus up to Senior level. This course provides experience in hand and mechanised bookbinding, finishing and print finishing processes and includes instruction in Technical Theory and Practice, Applied Printing, Applied Science, Design and Industrial Studies.



## TECHNICIAN COURSES

### D80. PRINTING TECHNICIAN CERTIFICATE

This course is designed to prepare young people for administrative positions in printing and related industries. It is of two years duration and leads to a DIT Certificate award on its successful completion.

As the course is at present included amongst the programmes approved under the European Social Fund (ESF) scheme, students may qualify for a weekly allowance and free tuition while attending it. Further details of the ESF scheme are available from the College Secretary on request.

**Entrance Requirements** The Irish Leaving Certificate with passes in five subjects including Mathematics and English, or equivalent qualification.

**Course of Study** The following subjects are included in the programme :—  
Design for Printing, Graphic Reproduction, Text Setting, Machine Printing, Bookbinding and Print Finishing, Applied Science, Mathematics, Computer Applications, Production Planning, Accounting, Costing and Estimating, Marketing and Sales.

**Awards** Graduates of this course are eligible for the following award :—  
**Technician Certificate in Printing (Dublin Institute of Technology).**  
Students may take appropriate examinations of the British Printing Industry Federation related to some of the above subjects while attending the course and these may be additional desirable qualifications for some positions.

**Career Opportunities** The majority of graduates to date have found positions in printing, publishing, or advertising firms as estimators, cost accountants, production planners, or sales personnel, while others become technical representatives for print materials and equipment suppliers.

### D82. CERTIFICATE IN PRINTING (PART-TIME)

This course is intended for those engaged in the administrative side of printing with a view to preparing them for higher administrative posts in the industry.

The age group for trainees is between 18 and 24 years.

The course occupies three years and attendance for one day and two evenings each week is required.

**Year One** Principles of Accounts, Structure of Commerce, Office Practice, Practical appreciation of the techniques of composing, Bookbinding and Print Finishing; Graphic Reproduction; General Technical Knowledge.

**Year Two** Printing Office Procedure, Practical appreciation of the techniques of letterpress machine printing, photo-litho plate-making and offset lithographic printing; photo-composition, direct impression composition, film and paper paste-up; Cost Accountancy for Printers, Estimating for Printers, Production Planning.

**Year Three** Industrial Law, Work Study, Communications in Industry, Principles of Management, Financial Accounting, Cost Accountancy for Printers, Estimating for Printers, Business Organisation, Production Planning.

## CRAFT & RELATED COURSES

These courses are for apprentices and young journeymen in the Printing and Bookbinding Trades. Every facility is given to students who wish to enter for the Trade certificate Examinations of the Department of Education. These examinations are conducted in the College at the end of the session. The courses are based on the examination syllabuses of the Department. Generally, students take the Junior Stage of the Trade Certificate Examinations of the Department of Education after one year's instruction, the Intermediate Stage after two years' instruction, and the Senior Stage after three years.

### D183. LETTERPRESS MACHINE PRINTING

(Block-release Course)

Consecutive courses of 12 weeks' duration for apprentices. During each course, the apprentices attending complete a stage of the Department of Education's syllabuses for the Junior, Intermediate and Senior Trade Certificate Examinations in Letterpress Machine Work. An examination in each stage is set by the Department of Education at the conclusion of each course.

### D190. COMPOSING

(Block-release Course)

Consecutive courses of 12 weeks' duration for apprentices. During each course, the apprentices attending complete a stage of the Department of Education's syllabuses for the Junior, Intermediate and Senior Trade Certificate Examinations in Composing. An examination in each stage is set by the Department of Education at the conclusion of each course.

### D191. BOOKBINDING

(Block-release Course)

A block-release course of 12 weeks' duration for apprentices. During each course, the apprentices attending complete a stage of the Department of Education's syllabuses for the Junior, Intermediate and Senior Trade Certificate Examinations in Bookbinding. An examination in each stage is set by the Department of Education at the conclusion of each course.

### D192. LITHOGRAPHY AND PHOTO-LITHOGRAPHY

(Block-release Course)

Consecutive courses of 12 weeks' duration for apprentices. During each course, the apprentices attending complete a stage of the Department of Education's syllabuses for the Junior, Intermediate and Senior Trade Certificate Examinations in Lithography and Photo-Lithography Work. An examination in each stage is set by the Department of Education at the conclusion of each course.



**D181. BOOK PRODUCTION FOR LIBRARIANS**

A one-year course for students of the Diploma in Librarianship run in conjunction with U.C.D.

**Entrance Requirements** Per U.C.D.

**D193. ARCHIVAL STUDIES**

A one-year part-time course designed to cover aspects of book production and printing for post-graduate students of the Diploma in Archival Studies in U.C.D.

**D199. PHOTOTYPESETTING**

This is a practical course for suitably qualified personnel on a wide range of modern phototypesetting and direct-impression composition equipment. Equipment includes: Pacesetter Mk IV, Linoscreen Visual Display Unit, Linocomp Direct Input Phototypesetter with electronic tape reader, Varicomp 1100 keyboard, Linotype Paul NJ200 keyboard, IBM 72 Composer, IBM Electronic Composer, Linofilm Keyboard and Photo Unit. The course will be held over a period of 13 weeks with attendance on one half-day per week.

**D200. SCREEN PROCESS PRINTING**

The course provides training and education for apprentices to Screen Process Printing. Attendance is on one day per week from September to June. The curriculum includes the production of positives for stencil making, production of handcut and photographic stencils, screen preparation and printing, applied science, design and applied printing.

## Printing + Book Production

### EVENING COURSES

**E83. APPLIED PRINTING**

A course requiring attendance for 2 evenings each week designed to provide those engaged in the Clerical and Administrative side of Printing with a general knowledge of the crafts involved in modern printing and of the materials and appliances used. Students who complete the course may enter the General Technical Knowledge examination of the British Printing Industries Federation. It is necessary to have passed the General Technical Knowledge examination to be accepted as a candidate for the following:—

- (a) Estimating examination of the British Printing Industries Federation.
- (b) Printing Office Procedure examination of the British Printing Industries Federation.

**E84A. COST ACCOUNTANCY FOR PRINTERS**

A course requiring attendance for two evenings each week designed to prepare students for the examination of the British Printing Industries Federation.

**Entrance Qualifications** Royal Society of Arts Certificate in Accounting and Office Procedure, or equivalent.

**E84B. ESTIMATING FOR PRINTERS**

A course requiring attendance for two evenings each week designed to prepare students for the examination of the British Printing Industries Federation.

**Entrance Qualifications** Leaving Certificate and General Technical Knowledge Certificate of the British Printing Industries Federation.

**E85. PAPER TECHNOLOGY AND MARKETING**

A 2-year course for employees of Paper Mills and Paper Merchants and Printers' employees engaged in the handling of paper transactions. Students are prepared for the examination of the National Association of Paper Merchants.

**Entrance Qualifications** Leaving Certificate.



**E86. DESIGN FOR PRINTING**

This is a two-year course to prepare students for the City & Guilds of London Institute examination in Design for Printing. Classes are held on one evening per week.

**Entrance Requirements** Department of Education Leaving Certificate or Department of Education Senior Certificate in a graphic arts subject or other equivalent qualification.

**E89A. PRINTING PRODUCTION MANAGEMENT (DEPARTMENTAL)**

**Duration of Course** A one-year course requiring attendance at the College for three evenings per week (6 hours).

**Entrance Requirements** City & Guilds of London Institute Advanced Certificate in one of the following: Composing; Letterpress Machine Printing; Lithography and Photo-Lithography; Bookbinding and Print Finishing. Mature students with experience in the industry but who do not possess any of the foregoing qualifications may, in exceptional cases, be admitted to the course.

**Subjects** Aspects of departmental management; human relations and communications in industry; production organisation; production processes.

**Objectives of Course** City & Guilds of London Institute Certificate in Printing Production Management (Departmental).

**E89B. PRINTING PRODUCTION MANAGEMENT (WORKS)**

**Duration of Course** A two-year course requiring attendance at the College for two evenings (4 hours) weekly.

**Entrance Requirements** City & Guilds of London Institute Certificate in Printing Production Management (Departmental), or Full Technological Certificate in Printing, or Certificate in Supervisory Studies.

**Subjects** Financial Aspects of Management; personnel management; production management.

**Objectives of Course** City & Guilds of London Institute Certificate in Printing Production Management (Works).

**E180. BOOK AND ARCHIVE RESTORATION**

The purpose of the course is to train students in the repair and presentation of books, documents, etc. It is of particular value to the staffs of hand bindaries, local record offices and those libraries concerned with the care of manuscripts and archives. Attendance is required on one evening per week. Students will be required to provide some of the materials used.

**E181. BOOK PRODUCTION**

This is intended for those involved in the care of books, particularly librarians, librarians under training, record office staff, etc. It will cover mechanised book production, hand bookbinding and book repair. Particular emphasis will be laid on the advantages and/or disadvantages of the various materials and binding styles used and their alternatives which may be used in the interest of economy. The techniques and terminology of forwarding, finishing and decoration will be dealt with.

**E182. PRINT FINISHING**

This course covers techniques and materials used in the production of books, magazines and a wide range of miscellaneous work handled in the print finishing department. Stress will be laid on hand and machine operations, e.g., wire stitching, sewing and folding, machine and hand feeding, gathering, glueing, mounting etc.

**E191. BOOKBINDING AND PRINT FINISHING, RETRAINING**

This is an evening course for post apprenticeship students with instruction in the latest techniques, and covers the whole range of materials and technology used in print finishing processes.

**E192. LITHOGRAPHY AND PHOTO LITHOGRAPHY RETRAINING**

This is an evening course for post apprenticeship students with instruction in the latest techniques of lithographic plate making and press operation. Craftsmen having completed apprenticeship to other printing processes undergo retraining in lithographic printing.



## E195A. PHOTOTYPESETTING

This is a two-year evening course of practical training for suitably qualified personnel, on a wide range of phototypesetting and strike-on composition equipment.

Equipment includes: Pacesetter Mk IV, Linoscreen Visual Display Unit, Linocomp Direct Input phototypesetter with electronic tape reader, Varicomp 1100 keyboard, Linotype Paul NJ200 keyboard, IBM 72 Composer, I.B.M. Electronic Composer, Linofilm Keyboard and Photo Unit.

## E195B. PAPER PASTE-UP

This evening course for suitably qualified personnel, covers all aspects of newspaper paste-up including equipment, text and headline origination, grids and formats, methods of adhesion, corrections, illustration, advertisements, borders, colour spots, page assembly, proofing and subsequent processes.

## E200. SCREEN PRINTING

This is a one-year course designed to up-date the skills of journeymen already employed in Screen Printing. Students prepare for the Craft Certificate in Screen Printing, of the City and Guilds of London Institute. One evening (2½ hours) per week.

## EXAMINING BODIES

### External Examinations

The courses relate to the Examinations of the following bodies :—

#### 1. Department of Education

##### (a) Technological Certificate Examination in :

- (i) Building
- (ii) Mechanical Engineering
- (iii) Motor Car Engineering
- (iv) Mathematics

##### (b) Trade Certificate Examinations in :

- (i) Bricklaying and Masonry
- (ii) Cabinetmaking
- (iii) Carpentry and Joinery
- (iv) Compositors' Work
- (v) Letterpress Machine Work
- (vi) Lithography and Photo Lithography
- (vii) Bookbinding
- (viii) Metalplate Work
- (ix) Motor Car Engineering
- (x) Painting and Decorating
- (xi) Plasterers' Work
- (xii) Plumbing
- (xiii) Fitters' Work
- (xiv) Turners' Work
- (xv) Metal Fabrication
- (xvi) Sheet Metalwork

#### 2. Professional Institutions

- (i) Construction Surveyors' Institute
- (ii) Council of the Engineering Institutions
- (iii) Institution of Engineers of Ireland
- (iv) Institution of Mechanical Engineers
- (v) Institution of Industrial Managers
- (vi) Institution of Structural Engineers
- (vii) Chartered Institute of Building Services
- (viii) Institution of Municipal Engineers
- (ix) The Institute of Building
- (x) Royal Institution of Chartered Surveyors
- (xi) Royal Institute of the Architects of Ireland
- (xii) Institution of Road Transport Engineers

#### 3. Other Bodies

- (i) British Federation of Master Printers
- (ii) City & Guilds of London Institute
- (iii) Department of Transport (Licence in Aeronautical Engineering)
- (iv) Institute of Clerks of Works in Ireland
- (v) Institute of the Motor Industry
- (vi) National Association of Paper Merchants



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### SCHOOL OF ARCHITECTURE SURVEYING AND BUILDING

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D Connolly  
Terence Cooke  
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Patrick Moran  
M O'Connor  
John O'Dea  
Hugh O'Hara  
Leslie Smith  
Alan Stewart  
Alexander Stewart  
Joseph Walsh  
Oliver Ward C & G

**Department of Aeronautical Engineering**

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MRAES FSLAET ACD & X Licences  
Assistant Head: Michael Forde AME MSLAET

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Thomas Corrigan FTC (C & G)

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**SCHOOL OF CONSTRUCTION TRADES**

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MInstGTechE

**Department of Building Trades 'A'**

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Assistant Head: Joseph Lawlor BA HDipEd FIBD

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Patrick Cullen C & G Adv Cert  
James P Doyle C & G FTC LCG  
Frederick Hosford Final C & G Adv Cert  
John Kane FTC C & G  
William Lacey C & G Adv Cert  
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Anthony Morey C & G Adv Cert  
Peter Mehlhorn FTCC & G  
Anthony Moran C & G Adv Cert  
Derek Nicholson C & G Adv Cert  
Paul O'Reilly C & G Adv Cert  
Thomas O'Reilly

**Department of Building Trades 'B'**

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FCIT FTC (Hons)  
Assistant Head: Patrick Kelly FTC HTC

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Andrew Dunne FTC (C & G)  
William Edwards C & G  
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James Wall (C & G)

**Part-time Staff**

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Phillip Cully  
Patrick Heenan  
Donal Lenehan

**Department of Metal Fabrication**

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AWeldI Tech (CEI)

Assistant Heads: Charles Hurley MIED  
Seamus Murrin TEng (CEI) FIOP MIPHE

**Whole-time Staff**

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Paul McMullan Final C & G Tech  
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Nicholas Murray Final C & G AWeldI  
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MIOP LCG

Assistant Heads of Department:

J P Brian Kennedy BA FTC (C & G) MIOP LCG  
Joseph Reddin Lic in Printing (C & G) AMIPtgM

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Noel Bright ACC (C & G)  
Kenneth Devitt ACC (C & G)  
John M Foley BA(Econ) MIMP MIOP FTC (C & G)  
Peter A Foley FTCC & G LCG  
Michael Grehan FTC (C & G) PPM(W)  
MInstMP BComm  
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Leo Levins ACC (C & G)  
Pádraig Ó Dálaigh BA FTC (C & G) TTG  
Vincent O'Leary  
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Robert Sharpe Final C & G

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Dermot Doorly BA HDipEd BL  
Philip Howlin  
G A Lynch BPIF(EST)  
Edward McCormack  
Anthony Thursby ACC (C & G)

### External Examiner

Mr Stanley McDonald FTC (C & G)  
Mr Robert Steele BA MIOP LCG

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Rev Dermot McKenna SJ  
Rev Desmond McMahon CSSp  
Rev Brendan Duddy SJ  
Rev Kieran Heneghan

### School of Trades

Rev John Hanley OFM  
Rev Michael Foley SS CC  
Rev Seamus Claffey OFM  
Rev Donal O'Shea OFM

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Vacant

## LIBRARIAN

Miss Moira Fennell BA Dipl Lib T

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Michael J Marnane BComm DPA MACRA

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Liam Cooke ACIS Senior Clerk

### Examinations Office

Thomas Foley Senior Clerk

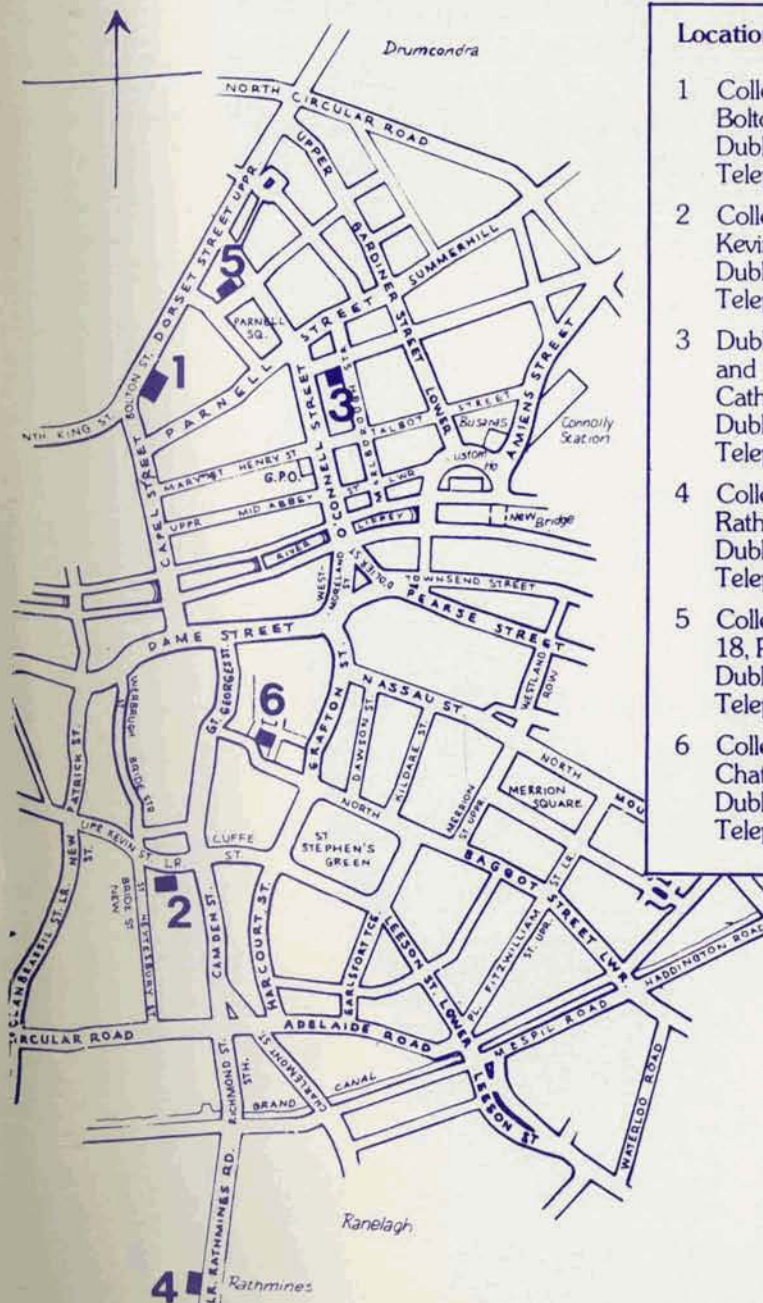
### Registrations / Admissions Office

Nuala McGlade Senior Clerk

### Building Maintenance Supervisor

Thomas McGovern

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### Location of College shown

- 1 College of Technology,  
Bolton Street,  
Dublin 1.  
Telephone 749913
- 2 College of Technology,  
Kevin Street,  
Dublin 8.  
Telephone 757541
- 3 Dublin College of Catering,  
and Hotel Management,  
Cathal Brugha Street,  
Dublin 1.  
Telephone 747886
- 4 College of Commerce,  
Rathmines,  
Dublin 6.  
Telephone 970666
- 5 College of Marketing,  
18, Parnell Square,  
Dublin 1.  
Telephone 742721
- 6 College of Music,  
Chatham Row,  
Dublin 2.  
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